SHARP SERVICE MANUAL

S23X9DV-SL20U

VCR/DVD COMBINATION

MODEL

























MAIN SECTION





DV-NC100S DV-NC100S(S) DV-NC100S(Q) DV-NC100S(Y) DV-NC100S(R)

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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MAIN SECTION

VCR/DVD COMBINATION

DV-NC100S/DV-NC100S(S)/DV-NC100S(Q)/ DV-NC100S(Y)/DV-NC100S(R)

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SPECIFICATIONS

< VCR Section >

TAPE SPEED: SP

Description	Unit	Minimum	Nominal	Maximum	Remark
1. Video					
1-1. Video Output (PB)	Vp-p	0.8	1	1.2	9HSFL6A
1-2. Video Output (R/P)	Vp-p	0.8	1	1.2	
1-3. Video S/N Y (R/P)	dB	40	45		W/O Burst
1-4. Video Color S/N AM (R/P)	dB	37	41		
1-5. Video Color S/N PM (R/P)	dB	30	36		
1-6. Resolution (PB)	Line	230	245		9HSFL6NS8
2. Servo					
2-1. Jitter Low	μsec		0.07	0.12	
2-2. Wow & Flutter	%		0.3	0.5	
3. Normal Audio					
3-1. Output (PB)	dBV	-9	-4	-3	9HSFL6A
3-2. Output (R/P)	dBV	-9	-4	-1.5	
3-3. S/N (R/P)	dB	36	41		
3-4. Distortion (R/P)	%		1.0	4	
3-5. Freq. resp (R/P) at 200Hz (PB)	dB	-6	-2		9HSFL6A
(-20dB ref. 1kHz) at 8kHz (PB)	dB	-6	-2		
4. Tuner					
4-1. Video output	Vp-p	0.8	1	1.2	
4-2. Video S/N	dB	39	44		
4-3. Audio output	dB	-10	-6	-4	
4-4. Audio S/N	dB	40	46		
5. Hi-Fi Audio					
5-1. Output (PB)	dBV	-11	-8	-5	9HSFL6HA
5-2. Dynamic Range	dB	70	80		
5-3. Freq. resp (6dB B.W)	Hz		20 ~ 20K		

Notes:

- 1. Nominal specs represent the design specs. All units should be able to approximate these some will exceed and some may drop slightly below these specs. Limit specs represent the absolute worst condition that still might be considered acceptable; In no case should a unit fail to meet limit specs.
- 2. For test tapes, refer to "SERVICE FIXTURE AND TOOLS" section.

1-1-1 H9740SP

< DVD Section >

ITEM	CONDITIONS	UNIT	NOMINAL	LIMIT
1 Video Output	75 Ω	Vpp	1.0	±0.1
2 Coaxial Digital Out		mVpp	500	
3 Audio (PCM)				
3-1. Output Level	1 kHz 0 dB	Vrm	2.0	
3-2. S/N		dB	90	
3-3. Freq. Response				
DVD	fs=48 kHz 20 ~ 22 kHz	dB	±0.5	
CD	fs=44.1 kHz 20 ~ 22 kHz	dB	±0.5	
3-4. THD +N				
DVD	1k Hz 0 dB	%	0.01	
CD 1k Hz 0 dB		%	0.01	

NOTES:

1. All Items are measured without pre-emphasis unless otherwise specified.

2. Power supply : AC220 - 240 V $\,\sim$ 50 Hz

3. Load imp.: 100 K ohm

4. Room ambient : 5 $^{\circ}$ C \sim 40 $^{\circ}$ C

5. Power consumption: 30 W (Standby: 5.5 W)

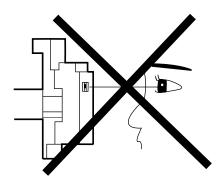
6. Weight: 6.84 lbs (3.2kg)

7. Dimension: 435 mm X 94 mm X 233 mm

1-1-2 H9740SP

LASER BEAM SAFETY PRECAUTIONS

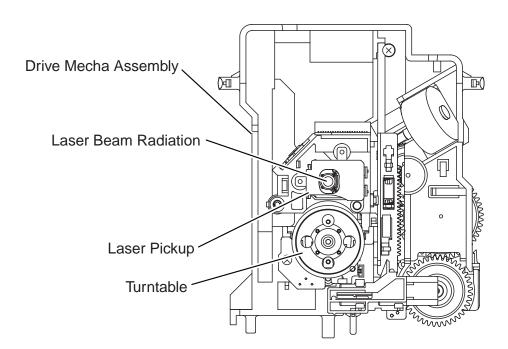
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

Caution: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



1-2-1 DVD_LASER

IMPORTANT SAFEGUARDS AND PRECAUTIONS

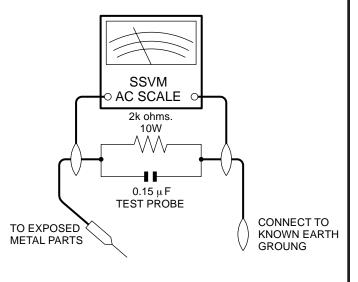
1. IMPORTANT SERVICE NOTES

BEFORE RETURNING THE DVD VIDEO PLAYER

Before returning the DVD video player to the user, perform the following safety checks.

- Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the DVD video player.
- Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor/capacitor networks, mechanical insulators etc.
- 3. To be sure that no shock hazard exists, check for current in the following manner.
- Plug the AC line cord directly into a 230 volt AC outlet (Do not use an isolation transformer for this test).
- Ùsing two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15μF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit.
- Use an DVM or VOM with 1000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor (See Diagram).
- Move the resistor connection to earth exposed metal part having a return path to the chassis (metal cabinet, screw heads, knobs and control shafts, etc.) and measure the AC voltage drop across the resistor.

Reverse the AC plug on the set and repeat AC voltage measurements for each exposed part. Any reading of 1.4V rms (this corresponds to 0.7mA rms AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the DVD video player to the owner.



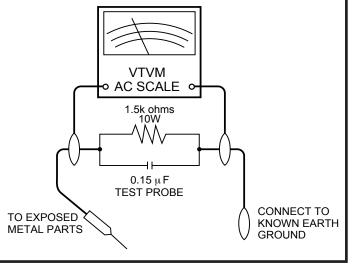
1. NOTES DE SERVICE IMPORTANTES

AVANT DE RENDRE LE REPRODUCTOR DE VÍDEO DVD

Avant de rendre le reproductor de vídeo DVD à l'utilisateur, effectuer les vérifications de sécurité suivantes.

- Vérifier toutes les gaines de fil pour être sûr que les fils ne sont pas pincés ou que le matériel n'est pas coincé entre le châssis et les autres pièces métalliques dans le reproductor de vídeo DVD.
- 2. Vérifier tous les dispositifs de protection tels que les boutons de commande non métalliques, les matériaux d'isolement, le dos du coffret, les couvercles de compartiment et ajustement ou les boucliers, les réseaux de résistance / condensateur d'isolement, les isolateurs mécaniques, etc.
- 3. Pour être sûr qu'il n'y a aucun risque de choc électrique, vérifier le courant de fuite de la maniére suivante.
- Brancher le cordon d'alimentation secteur directement dans une prise de courant de 230 volts. (Ne pas utiliser de transformateur d'isolement pour cet essai).
- Utiliser deux fils à pinces et connecter une résistance de 10 watts 1,5 kohm en parallèle avec un condensateur de 0,15 μF en série avec des pièces du coffret métallique exposées et une masse de terre connue telle qu'un tuyau ou un conduit d'eau.
- Utiliser un DVM ou VOM avec une sensibilité de 1000 ohms par volt ou plus ou mesurer la chute de tension CA entre la résistance (voir diagramme).
- Déposer la connexion de la résistance à toutes les

pièces métalliques exposées ayant un parcours de retour au châssis (coffret métallique, tétes de vis, boutons et arbres de commande, etc.) et mesurer la chute de tension CA entre la résistance. Inverser la fiche CA (une fiche intermédiaire non polarisée doit être utilisée à seule fin de faire ces vérifications.) sur l'appareil et répéter les mesures de tension CA pour chaque piéce métallique exposée. Toute lecture de 1,4 V rms (ceci correspond à 0,7 mA rms CA) ou plus est excessive et signale un danger de choc qui doit être corrigé avant de rendre le reproductor de vídeo DVD à son utilisateur.

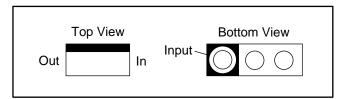


1-3-1 E5752IMP

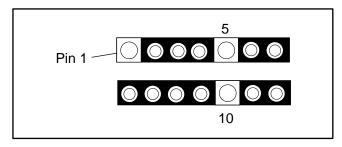
STANDARD NOTES FOR SERVICING

Circuit Board Indications

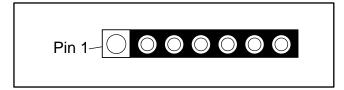
a. The output pin of the 3 pin Regulator ICs is indicated as shown.



 For other ICs, pin 1 and every fifth pin are indicated as shown.

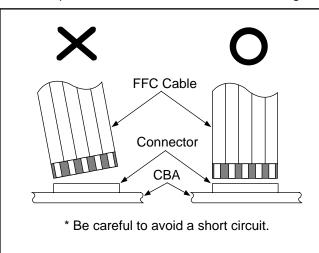


 The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

- When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
- 2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or solder ing bit, contact our service station or service ranch in your area.

Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required. If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	*	Description	Code
ZHNDAi123250E	J	Ф0.3mm 250g(1roll)	BL
ZHNDAi126500E	J	0.6mm 500g(1roll)	BK
ZHNDAi12801KE	J	\$1.0mm 1kg(1roll)	ВМ

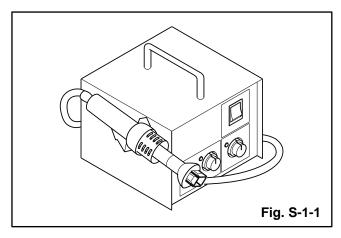
1-4-1 DVD_NOTE2

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

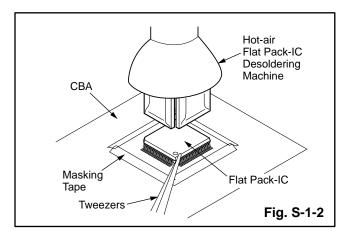
(1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)



- (2) Remove the flat pack-IC with tweezers while applying the hot air.
- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

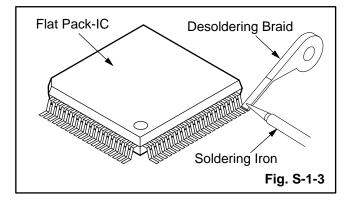
Caution:

- Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
- 2. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

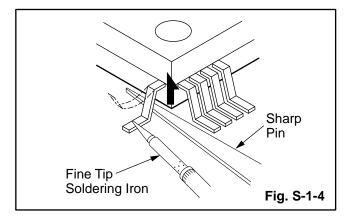


With Soldering Iron:

(1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)



(2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)



- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

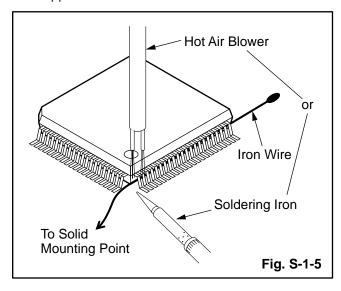
- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
- (2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- (3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.

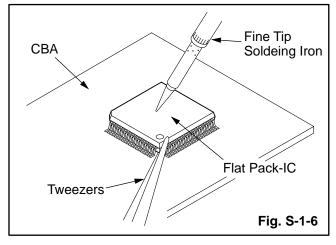
1-4-2 DVD_NOTE2

- (4) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (5) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note:

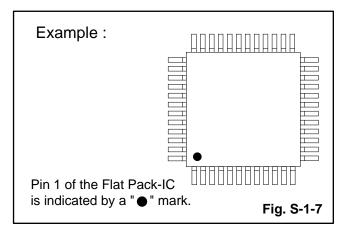
When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

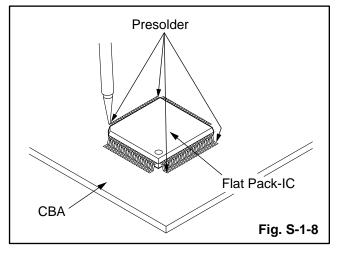




2. Installation

- (1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
- (2) The "•" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
- (3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.





1-4-3 DVD_NOTE2

Instructions for Handling Semi-conductors

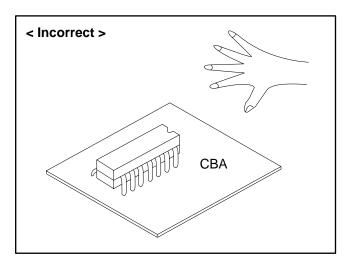
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

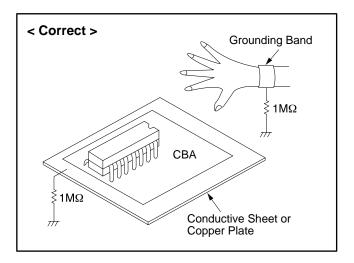
1. Ground for Human Body

Be sure to wear a grounding band (1M Ω) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1M Ω) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.





1-4-4 DVD_NOTE2

PREPARATION FOR SERVICING

How to Enter the Service Mode

About Optical Sensors

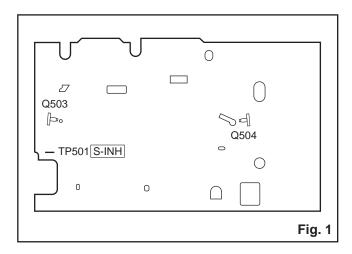
Caution:

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate erratically.

What to do for preparation

Insert a tape into the Deck Mechanism Assembly and press the PLAY button. The tape will be loaded into the Deck Mechanism Assembly. Make sure the power is on, connect TP501 (S-INH) to GND. This will stop the function of Tape Start Sensor, Tape End Sensor and Reel Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.) See Fig. 1.

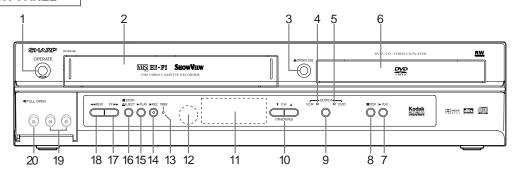
Note: Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.



1-5-1 H9740PFS

OPERATING CONTROLS AND FUNCTIONS

FRONT PANEL



1. OPERATE

To turn the unit ON or OFF.

The indicator is on when this unit is turned on.

2. Cassette Compartment

3. OPEN/CLOSE (DVD)

To open or close the disc tray.

4. VCR OUTPUT indicator

The indicator is on when this unit is in the VCR mode. Make sure that this indicator is on before VCR operation.

5. DVD OUTPUT indicator

The indicator is on when this unit is in the DVD mode. Make sure that this indicator is on before using the DVD player.

6. Disc tray

7. PLAY (DVD)

To begin disc playback.

8. STOP (DVD)

To stop playback.

9. OUTPUT

To select the DVD mode or VCR mode.

10. CHANNEL

To change TV channels.

To adjust the tracking manually during VCR playback

11. Display

12. Remote Sensor

13. TIMER indicator

The indicator is on when the VCR/DVD is in standby mode for a timer recording or during a One Touch Recording.

14. REC (VCR)

Press once to start recording or repeatedly to start One Touch Recording.

The indicator is on during recording.

15. PLAY (VCR)

To begin tape playback

16. STOP/EJECT (VCR)

To stop playback.

To eject the tape in the Stop mode.

17. FF (VCR)

To fast forward the tape.

18. REW (VCR)

To rewind the tape.

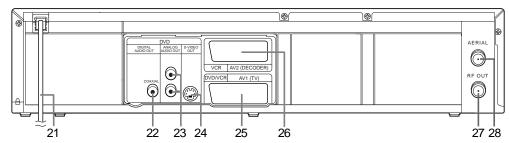
19. AUDIO IN Jacks

Connect audio cables coming from the audio out jacks of a camcorder, another VCR, or an audio source here.

20 VIDEO IN Jack

Connect a cable coming from the video out jack of a camcorder, another VCR or an audio-visual source (laser disc player, video disc player, etc.) here.

REAR VIEW



21. MAIN (AC Power Cord)

Connect to a standard AC plug.

22. COAXIAL DIGITAL AUDIO OUT Jack

Connect to a compatible Dolby Digital receiver. Use to connect to a Dolby Digital decoder, DTS decoder or MPEG decoder.

23. AUDIO OUT Jack (ANALOG Left/Right)

Connect to the Audio input jacks of A/V-compatible TV

24. S-VIDEO OUT Jack (DVD Only)

Use the S-Video cable to connect this jack to the S-Video jack on your A/V-compatible TV or wide screen TV for a higher quality picture.

25. EURO AV1 (TV) Jack

Use the Euro Audio/Video cable to connect this jack to the 21 pin scart jack on your A/V-compatible TV or wide screen TV for a best quality picture.

26. EURO AV2 (DECODER) Jack

Use the Euro Audio/Video cable to connect this jack to the 21 pin scart jack on your decoder.

27. RF OUT Jack

Use the supplied round coaxial cable to connect this jack to the ANTENNA IN Jack on your TV.

28. AERIAL Jack

Connect your antenna, Cable Box, or Direct Broadcast System.

1-6-1 H9740IB

REMOTE CONTROL

1. DISPLAY Button

- Press to display the current playback mode.(DVD)
- Press to display the current time, tape counter and channel number.(VCR)

2. OPERATE Button

Press to turn the power on and off.

3. ANGLE/ShowView Button

Press to change the camera angle to see the sequence being played back from a different angle.(DVD)

Press to programme timer recording with the ShowView system. (VCR)

4. SUBTITLE Button

Press to select a desired subtitle language or to change the Panel Display settings. (DVD)

5. ZOOM Button

Enlarges part of a DVD-reproduced image.

6. VCR Button

Press to select VCR output mode and to use the remote control in VCR mode.

7. TITLE Button

Displays the title menu.

8. ARROW Buttons (▲ ▼ ◀►)

(up/down/left/right) Press to select an item in the menu and to move the cursor.

9. RETURN Button

Returns to the previous operation.

10. Numerical Buttons

11. CLEAR/C-RESET Button

- · Press to clear the markers or the incorrect input. (DVD)
- · Press to reset the counter. (VCR)

12. PLAY Button

Press to begin playback.

13. REV Button

Fast reverse playback to a desired point. (VCR)

14. REC/OTR Button

Press once to start recording or repeatedly to start One Touch Recording.

15. STOP Button

- Press to stop playback. (DVD)
- Press to stop playback or recording. (VCR)

16. DIRECT SKIP/QUICK-FIND Button

- Press to locate a desired point. (DVD)
- Press to skip to the beginning of the next programme.
 (VCR)

17. TAPE SPEED Button

Press to select the VCRs recording speed. (SP or LP)

18. GAMMA Button

Press to adjust the black parts of the picture brighter. (DVD)

19. SEARCH MODE Button

Press to call up the index or time search menu. (VCR)

20. CH (▲/▼) Button

Press to change TV channels or to adjust the tracking manual on the VCR.

21. TIMER ON/OFF Button

Press to put the VCR into standby mode for a timer recording.

22. SLOW Button

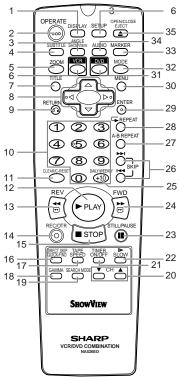
Press to view the video tape in slow motion.

23. STILL/PAUSE Button

- Press to pause playback or to advance playback one frame at a time. (DVD)
- Press to pause playback or recording or to advance playback one frame at a time. (VCR)

24. FWD Button

· Fast forwards playback to a desired point.



25. DAILY/WEEKLY Button

Press to select once, daily, everyday, or weekly when you programme the automatic timer recording using the ShowView system. (VCR)

26. SKIP (▶▶I/I◄◄) Buttons

Press to skip Chapters or Tracks. (DVD)

27. A-B REPEAT Button

Repeats playback of a selected section. (DVD)

28. REPEAT Button

Repeats playback of the current disc, title, chapter or track. (DVD)

29. ENTER Button

Press to accept a setting. (DVD)

30. MENU Button

- Press to display the DVD menus and MP3 file lists. (DVD)
- · Press to display the VCR menu. (VCR)

31. DVD Button

Press to select DVD output mode and to use the remote control in DVD mode

32. MODE Button

Activates programme playback or random playback mode. (CD/ MP3/ JPEG)

Activates the 3D sound or Rapid Play. (DVD)

33. MARKER Button

Press to call back the Marker display. (DVD)

34. AUDIO Button

- Press to select a desired audio language or sound mode. (DVD)
- Press to select a desired sound mode. (VCR)

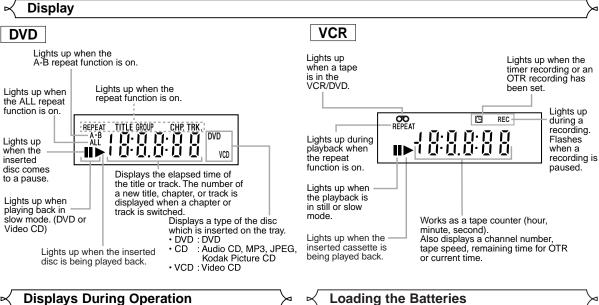
35. OPEN/CLOSE/EJECT Button

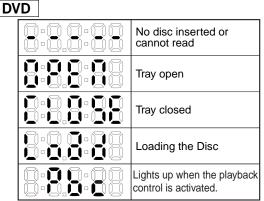
- Press to insert discs into or remove them from the tray. (DVD)
- · Press to remove the tape from the VCR. (VCR)

36. SETUP Button

Press to enter the setup mode or to change setup items. (DVD)

1-6-2 H9740IB





Loading the Batteries

1. Open the battery compartment cover.



2. Insert two R-6 batteries, with each one oriented correctly.



3. Close the cover.

NOTES:

- · Do not mix alkaline and manganese batteries.
- · Do not mix old and new batteries

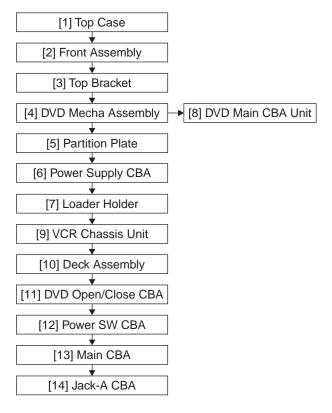


H9740IB 1-6-3

CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

[<u>.</u> _,		REMOVAL			
ID/ LOC. No.	PART	Fig. No.	REMOVE/ *UNHOOK/UNLOCK/ RELEASE/UNPLUG/ DESOLDER	Note	
[1]	Top Case	1	8(S-1)	-	
[2]	Front Assembly	2	*3(L-1), *3(L-2)	1 1-1 1-2	
[3]	Top Bracket	2	3(S-2)	-	
[4]	DVD Mecha Assembly	3	4(S-3), *CN401, *CN601	-	
[5]	Partition Plate	3	(S-4)	-	
[6]	Power Supply CBA	3	2(S-5), *CN501	-	

	PART	REMOVAL			
ID/ LOC. No.		Fig. No.	REMOVE/ *UNHOOK/UNLOCK/ RELEASE/UNPLUG/ DESOLDER	Note	
[7]	Loader Holder	3	2(S-6)	-	
[8]	DVD Main CBA Unit	4	2(S-7), *CN201, *CN301	2 2-1 2-2 3	
[9]	VCR Chassis Unit	5	5(S-8), 2(S-9), 2(S-10), (L-3)	-	
[10]	Deck Assembly	6	Desolder, 2(S-11), (S-12)	4,5	
[11]	DVD Open/Close CBA	6	Desolder	-	
[12]	Power SW CBA	6	Desolder	-	
[13]	Main CBA	6		-	
[14]	Jack-A CBA	6	Desolder, 2(S-13)		
1	↑ ②	1 3	↑ ④	↑ ⑤	

- ① : Identification (location) No. of parts in the figures
- 2: Name of the part
- ③ : Figure Number for reference
- ④: Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

P=Spring, L=Locking Tab, S=Screw, CN=Connector,

*=Unhook, Unlock, Release, Unplug, or Desolder e.g. 5(S-1) = five Screws (S-1),

2(L-2) = two Locking Tabs (L-2)

⑤: Refer to "Reference Notes."

1-7-1 H9740DC

Reference Notes

CAUTION 1: Locking Tabs (L-1) and (L-2) are fragile. Be careful not to break them.

- 1-1. Release three Locking Tabs (L-1).
- 1-2. Release three Locking Tabs (L-2), then remove the Front Assembly.

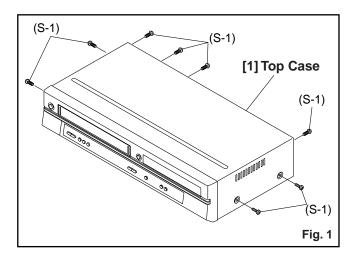
CAUTION 2: Electrostatic breakdown of the laser diode in the optical system block may occur as a potential difference caused by electrostatic charge accumulated on cloth, human body etc., during unpacking or repair work.

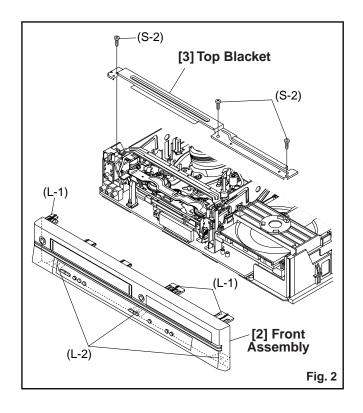
To avoid damage of pickup follow next procedures.

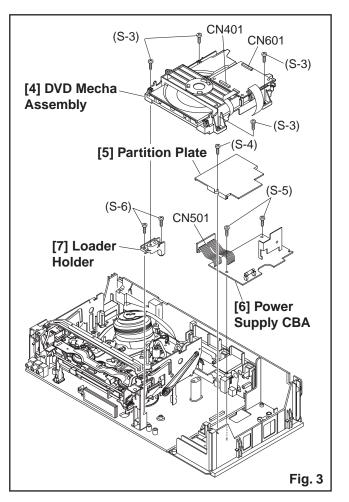
- 2-1. Disconnect Connector (CN301). Remove a Screw (S-7) and lift the DVD Main CBA Unit. (Fig. 4)
- 2-2. Short the three short lands of FPC cable with solder before removing the FFC cable (CN201) from it. If you disconnect the FFC cable (CN201), the laser diode of pickup will be destroyed. (Fig. 4)

CAUTION 3: When reassembling, confirm the FFC cable (CN201) is connected completely. Then remove the solder from the three short lands of FPC cable. (Fig. 4)

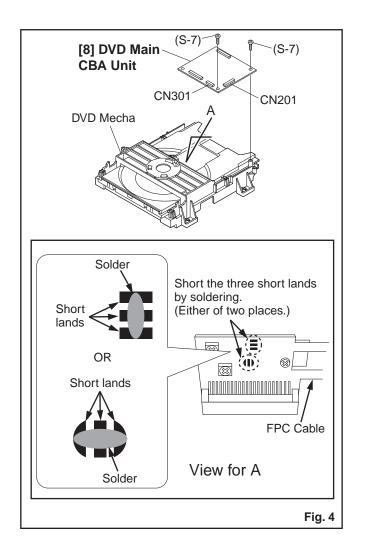
- 4. When reassembling, solder wire jumpers as shown in Fig. 6.
- 5. Before installing the Deck Assembly, be sure to place the pin of LD-SW on Main CBA as shown in Fig. 6. Then, install the Deck Assembly while aligning the hole of Cam Gear with the pin of LD-SW, the shaft of Cam Gear with the hole of LD-SW as shown in Fig. 6.

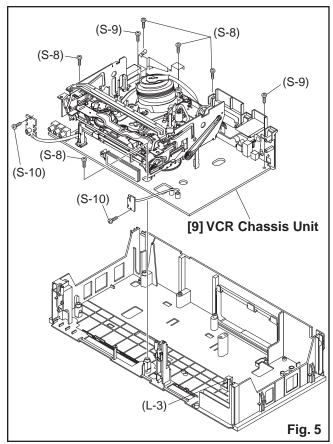




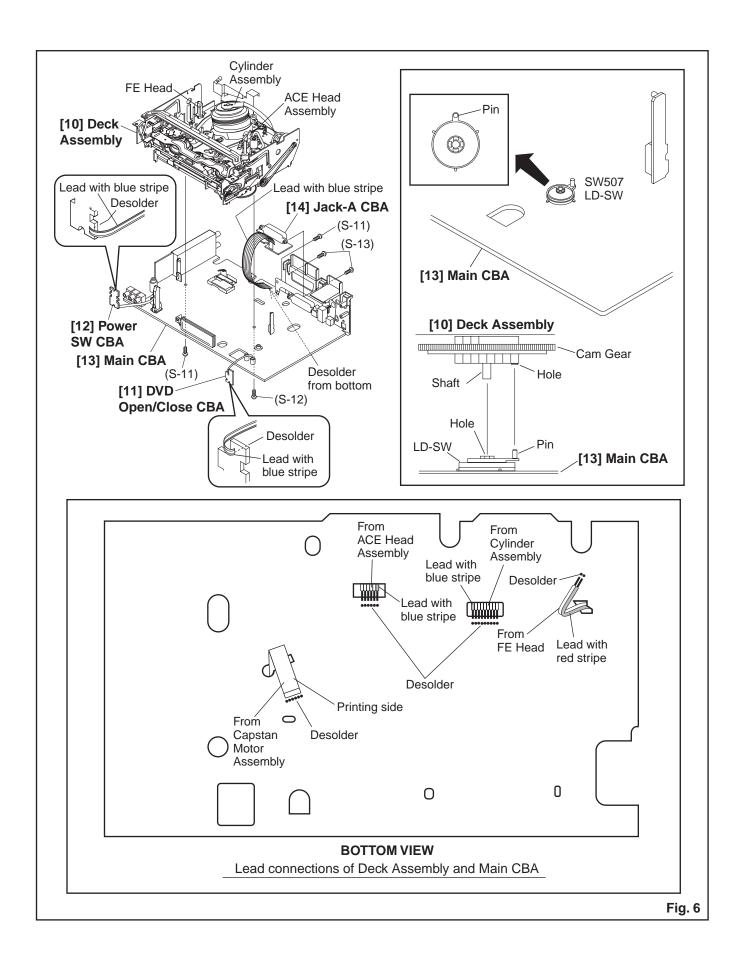


1-7-2 H9740DC





1-7-3 H9740DC



1-7-4 H9740DC

HOW TO EJECT MANUALLY 1. Remove the Top Case. 2. Rotate the roulette in the direction of the arrow as shown below. 3. Pull the tray slowly with a hand. View for A Rotate this roulette in the direction of the arrow DVD Mecha

1-7-5 H9740DC

ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: "CBA" is an abbreviation for "Circuit Board Assembly."

NOTE:

- Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.
- 2. To perform these alignment / confirmation procedures, make sure that the tracking control is set in the center position: Press either "CHANNEL →" or "CHANNEL ▼" button on the front panel first, then the "PLAY" button on the front panel.

Test Equipment Required

1. Oscilloscope: Dual-trace with 10:1 probe,

V-Range: 0.001~50V/Div., F-Range: DC~AC-20MHz

2. Alignment Tape (9HSFL6A) (Refer to "SERVICE

FIXTURE AND TOOLS" section.)

Head Switching Position Adjustment

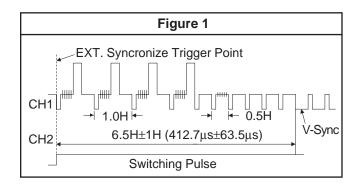
Purpose:

To determine the Head Switching position during playback.

Symptom of Misadjustment:

May cause Head Switching noise or vertical jitter in the picture.

Test point	Adj.Point	Mode	Input			
TP751(V-OUT) TP504(RF-SW) GND	VR501 (Switching Point) (MAIN CBA)	PLAY (SP)				
Таре	Measurement Equipment	Spe	·C.			
9HSFL6A	ISFLEA Oscilloscopa		1H 63.5μS)			
Connections of Measurement Equipment						
Main CBA	TP751 GND TP504	CH1	CH2			



Reference Notes:

Playback the Alignment tape and adjust VR501 so that the V-sync front edge of the CH1 video output waveform is at the $6.5H\pm1H$ (412.7 μ s $\pm63.5\mu$ s) delayed position from the rising edge of the CH2 head switching pulse waveform.

1-8-1 H9740EA

FIRMWARE RENEWAL MODE

FIRMWARE is built-in program to operate DVD player. To get rid of error when playing new software (disc) in the market, FIRMWARE version is updated. Perform the following to update the FIRMWARE version.

- 1. Turn the power on and remove the disc on the tray.
- 2. To put the DVD player into version up mode, press [9], [8], [7], [6], and [DIRECT SKIP/QUICK-FIND] buttons on the remote control unit in that order. The tray will open automatically.

Fig. a appears on the screen and Fig. b appears on the VFD.

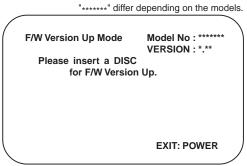


Fig. a Version Up Mode Screen

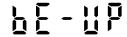


Fig. b VFD in Version Up Mode

The DVD player can also enter the version up mode with the tray open. In this case, Fig. a will be shown on the screen while the tray is open.

- 3. Load the disc for version up.
- 4. The DVD player enters the F/W version up mode automatically. Fig. c appears on the screen and Fig. d appears on the VFD. If you enter the F/W for different models, "Disc Error" will appear on the screen, then the tray will open automatically.

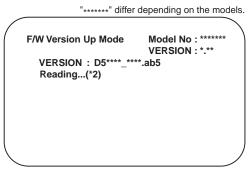


Fig. c Programming Mode Screen



Fig. d VFD in Programming Mode (Example)

The appearance shown in (*2) of Fig. c is described as follows:

No.	Appearance	State
1	Reading	Sending files into the memory
2	Erasing	Erasing previous version data
3	Programming	Writing new version data

After programming is finished, the tray opens automatically. Fig. e appears on the screen and the checksum in (*3) of Fig. e appears on the VFD. (Fig. f)

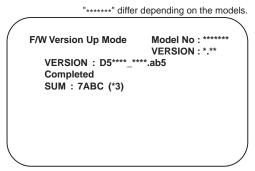


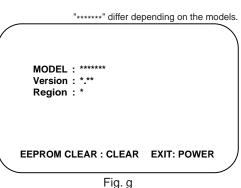
Fig. e Completed Program Mode Screen

786[

Fig. f VFD upon Finishing the Programming Mode (Example)

At this time, no buttons are available.

- 6. Remove the disc on the tray.
- Unplug the AC cord from the AC outlet. Then plug it again.
- 8. Turn the power on by pressing the [OPERATE] button and the tray will close.
- 9. Press [1], [2], [3], [4], and [DISPLAY] buttons on the remote control unit in that order.
 Fig. g appears on the screen.



3 .

10.Press [CLEAR/C-RESET] button on the remote control unit.

Fig. h appears on the screen.

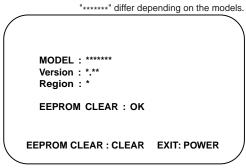


Fig. h

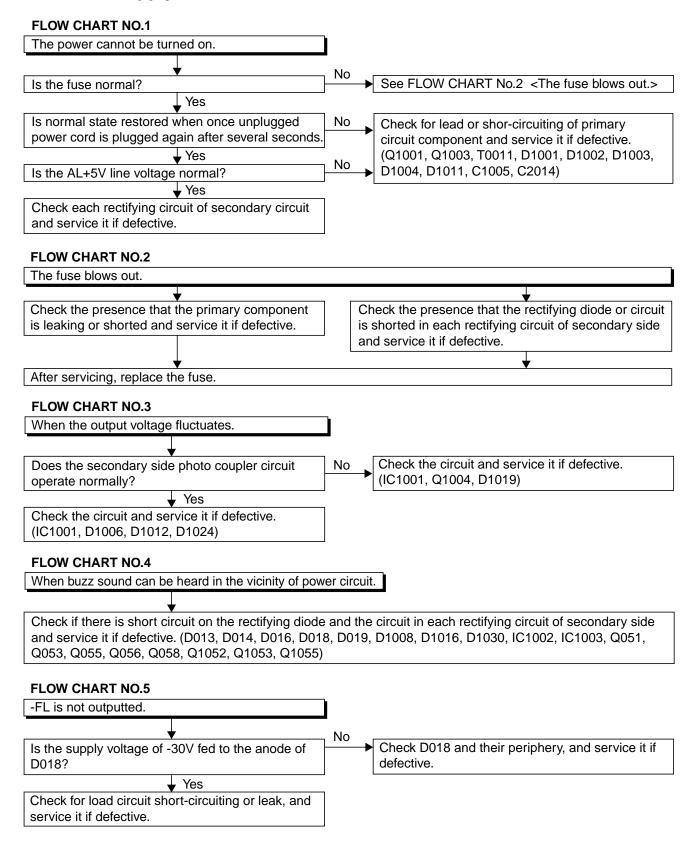
When "OK" appears on the screen, the factory default will be set. Then the firmware renewal mode is complete.

11.To exit this mode, press [OPERATE] button.

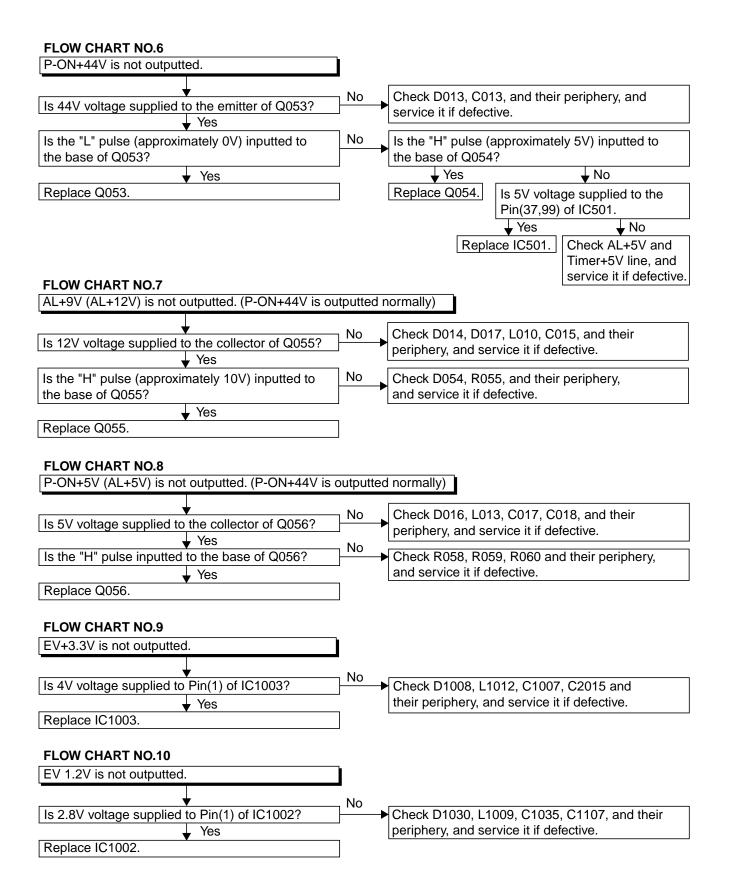
1-9-2 H9740TEST

TROUBLESHOOTING

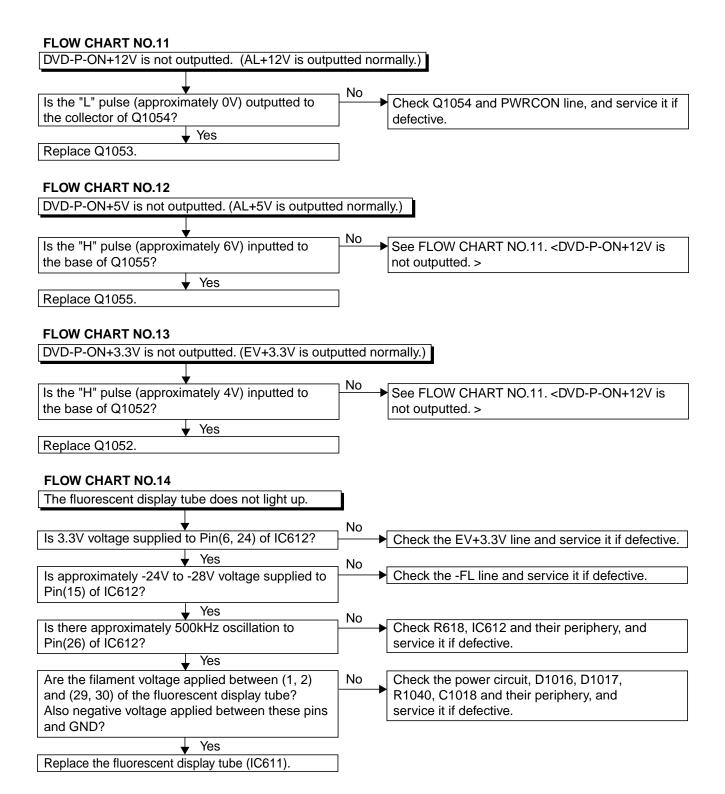
1. Power Supply Section



1-10-1 H9740TS

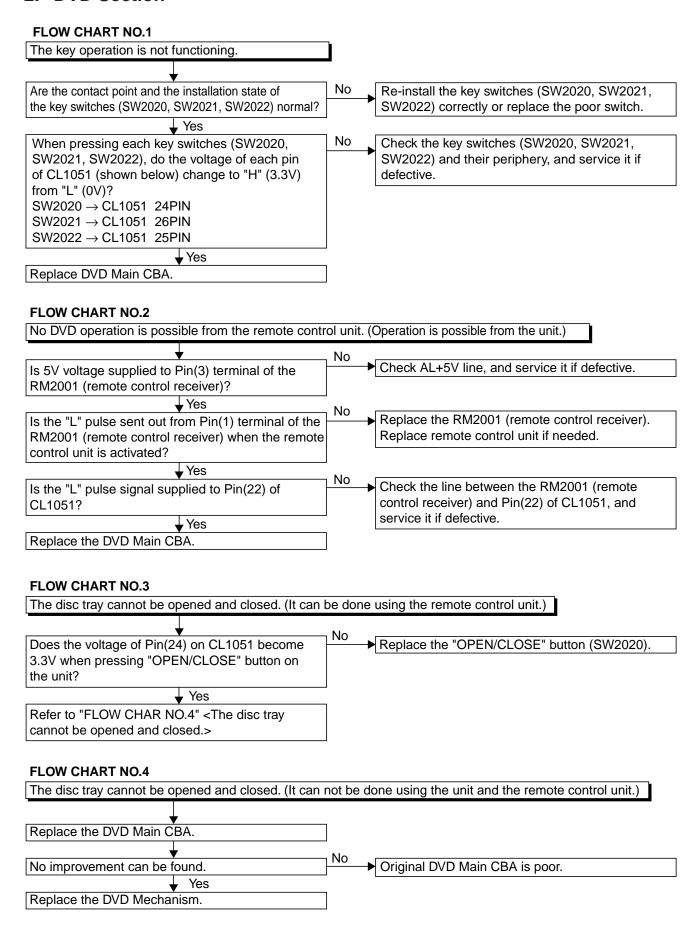


1-10-2 H9740TS

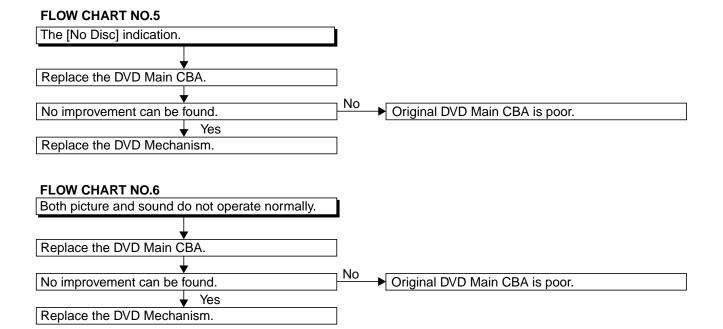


1-10-3 H9740TS

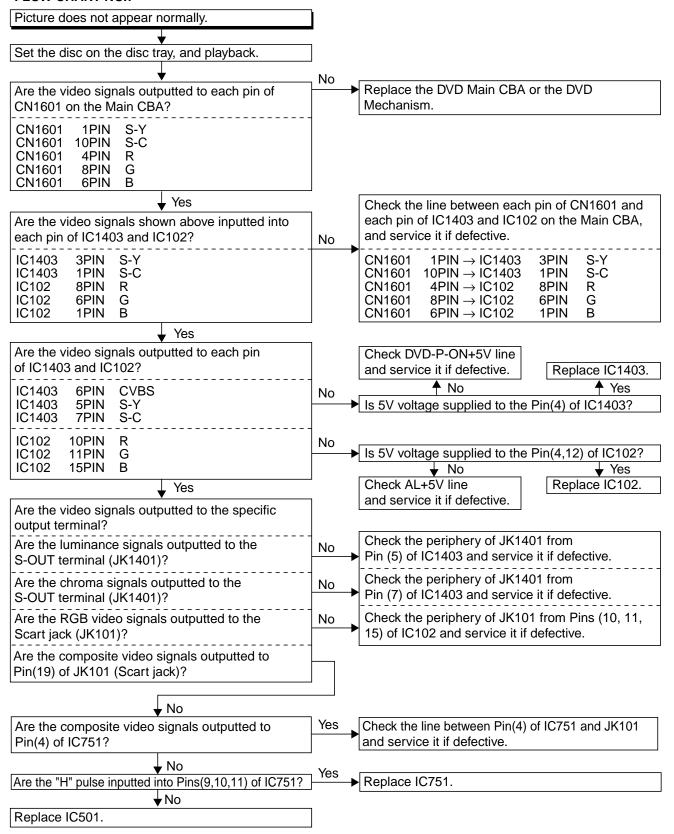
2. DVD Section



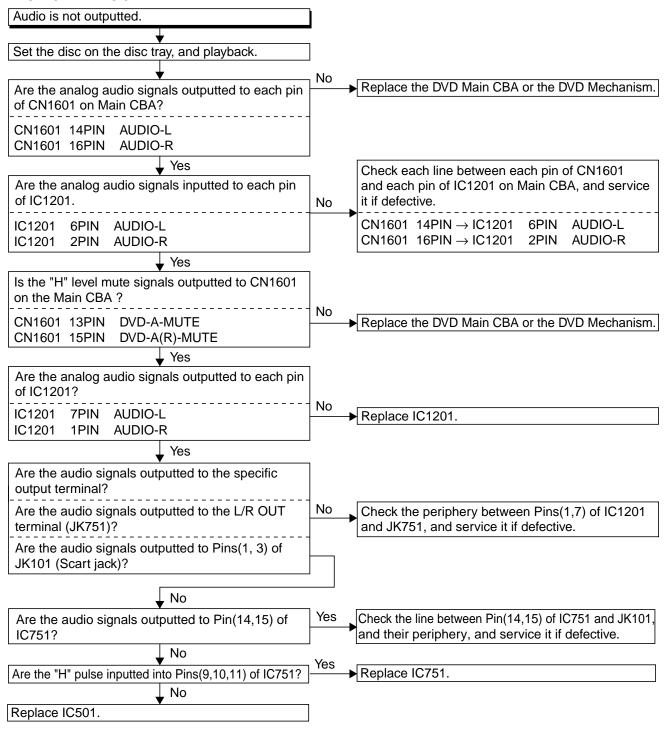
1-10-4 H9740TS



1-10-5 H9740TS



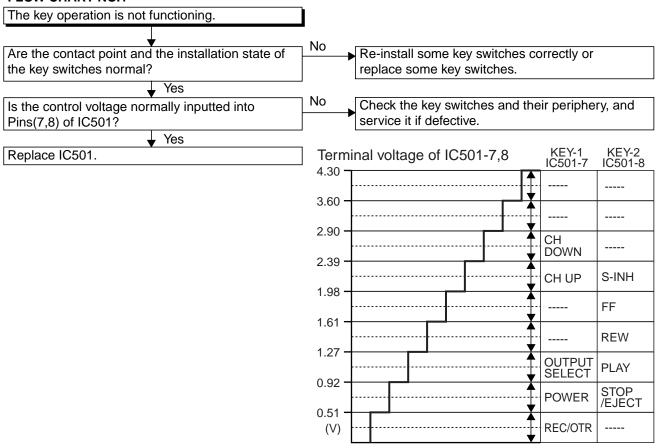
1-10-6 H9740TS



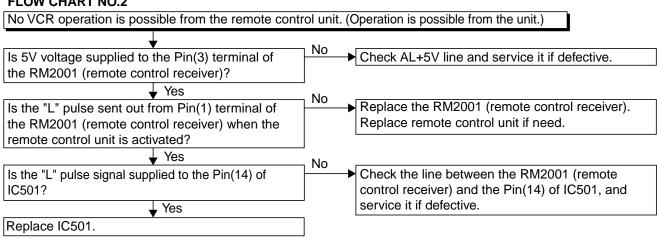
1-10-7 H9740TS

3. VCR Section

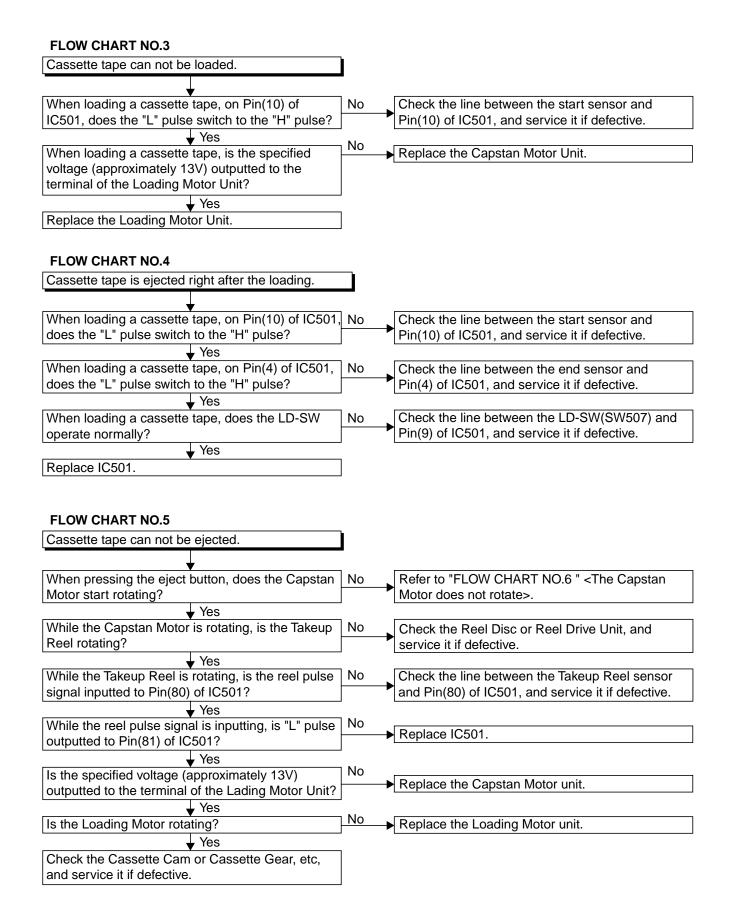
FLOW CHART NO.1



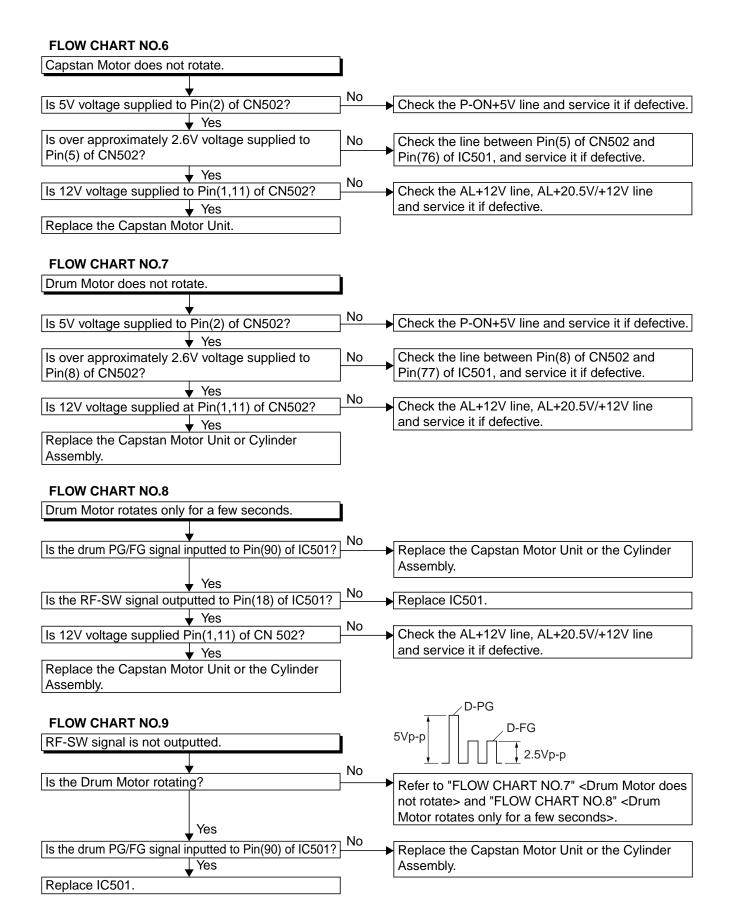
FLOW CHART NO.2



1-10-8 H9740TS



1-10-9 H9740TS



1-10-10 H9740TS

FLOW CHART NO.10 Video E-E does not appear. Is the Video signal inputted to Pins(48,50,52,54) of 1) In the external input mode IC301? ■ Check the line between Pin(20) of JK101 (Scart jack) and Pin(50) of IC301, and service it if defective. ■ Check the line between Pin(20) of JK1402 (Scart jack) and Pin(52) of IC301, and service it if defective. Check the line between the video input terminal (front) and Pin(54) of IC301, and service it if defective. 2) In the U/V tuner mode ■ Check the line between Pin(24) of the U/V tuner and Pin(48) of IC301, and service it if defective. Yes Is the C-SYNC signal outputted to Pin(67) of IC301? No Yes Is the C-SYNC signal inputted to Pin(58) of IC501? Replace IC301. Check the line between Pin(67) of IC301 and Pin(58) of IC501, and service it if defective. Check the line between Pin(61) of IC301 and Is the video signal inputted into Pin(5) of IC751? Pin(5) of IC751, and service it if defective. Is the video signal outputted to the emitter of Q104? Is the video signal outputted to Pin(4) of IC751? No Check the line between Pin(4) of IC751 and Q104, and service it if defective. Yes When only Line signal is not outputted... check the line between the emitter of Q104 and Pin(19) of JK101 (Scart jack), and service it if defective. When only RF signal is not outputted... check the tuner (TU701), and the line between the emitter of Q104 and Pin(6) of the tuner, No and service it if defective. Is approximately 5V voltage supplied to Pin(16) No Check the AL+5V line and the AL-30V line of IC751, or approximately -5V voltage supplied to (R764, R765), and service it if defective.

No

▶ Replace IC501.

Pin(7) of IC751?

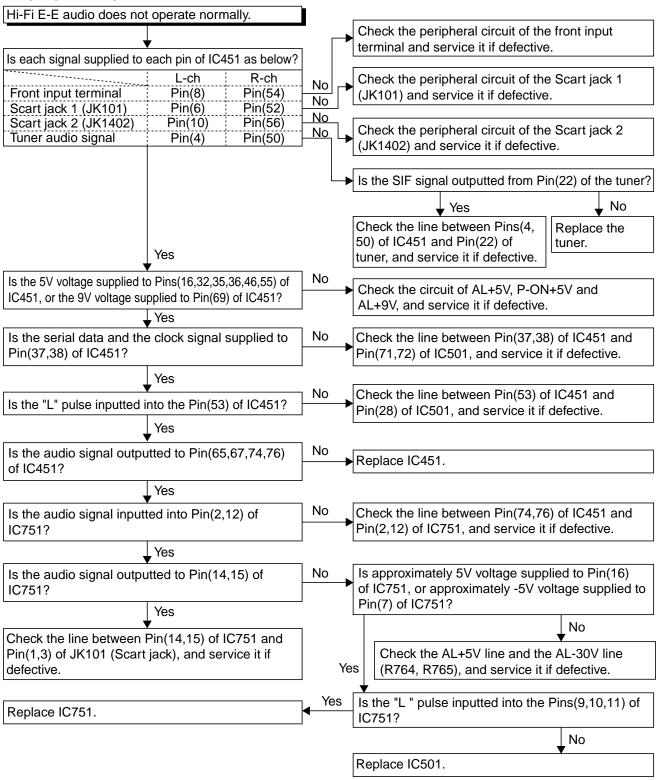
Replace IC751.

Yes

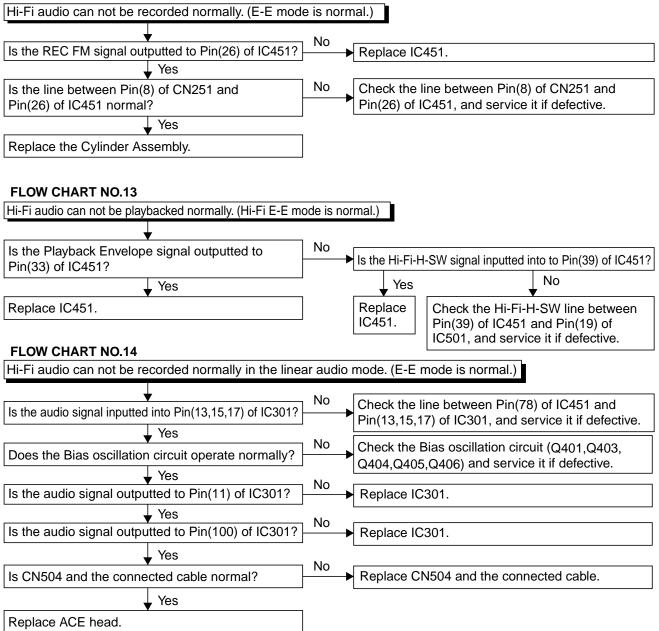
Yes

Is the "L" pulse inputted into Pin(9,10,11) of IC751?

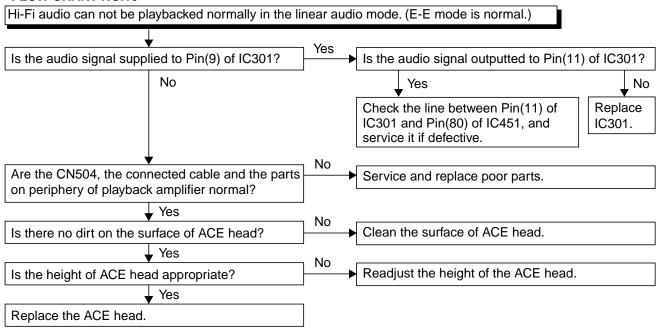
1-10-11 H9740TS



1-10-12 H9740TS

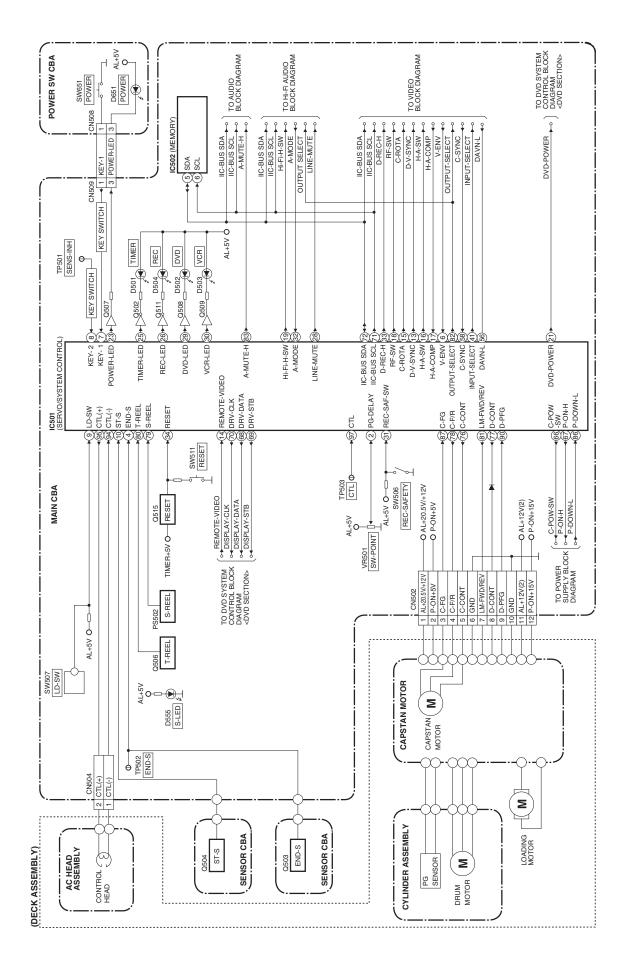


1-10-13 H9740TS



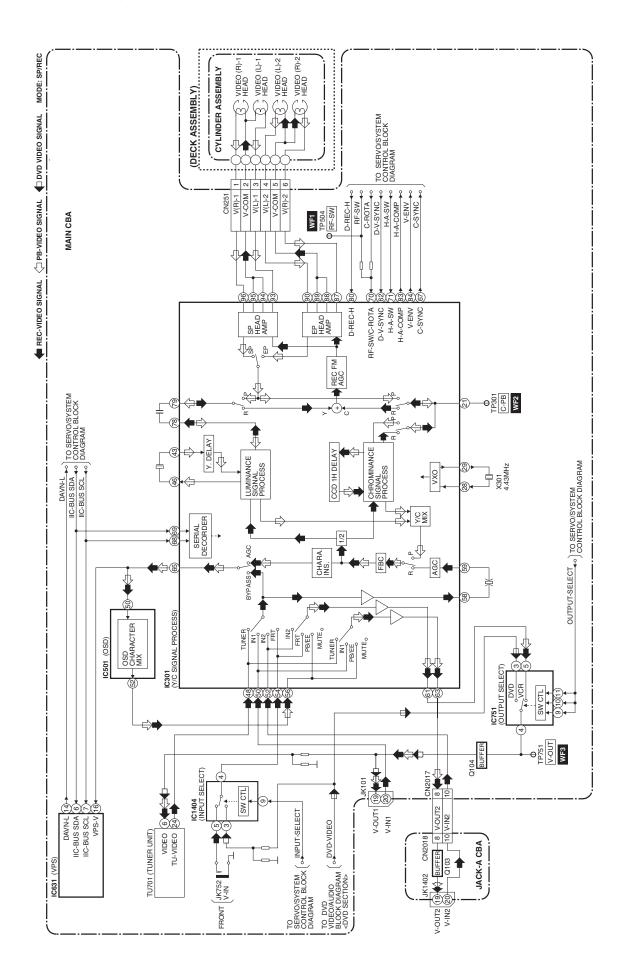
1-10-14 H9740TS

BLOCK DIAGRAMS < VCR SECTION > Servo/System Control Block Diagram



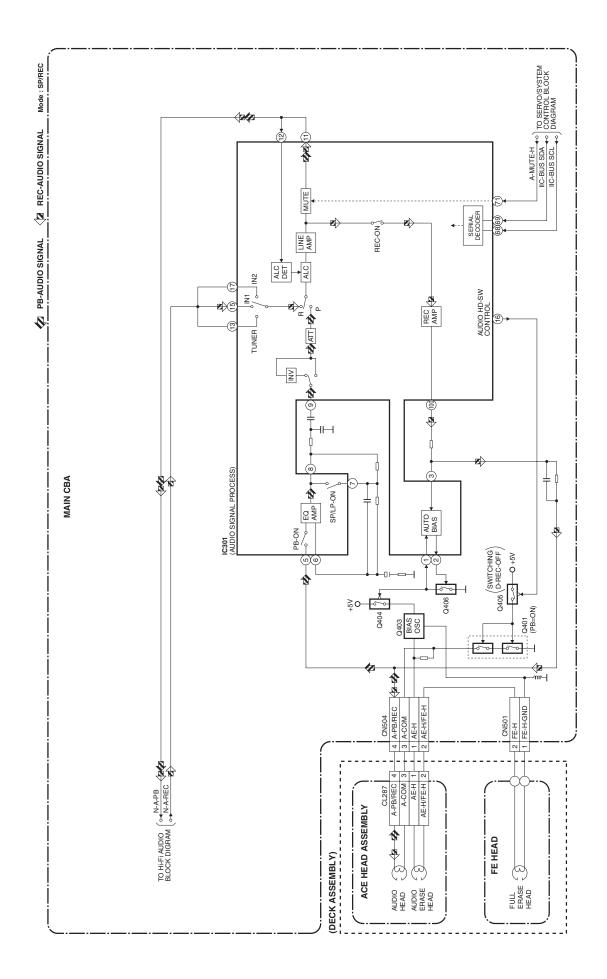
1-11-1 H9740BLS

Video Block Diagram



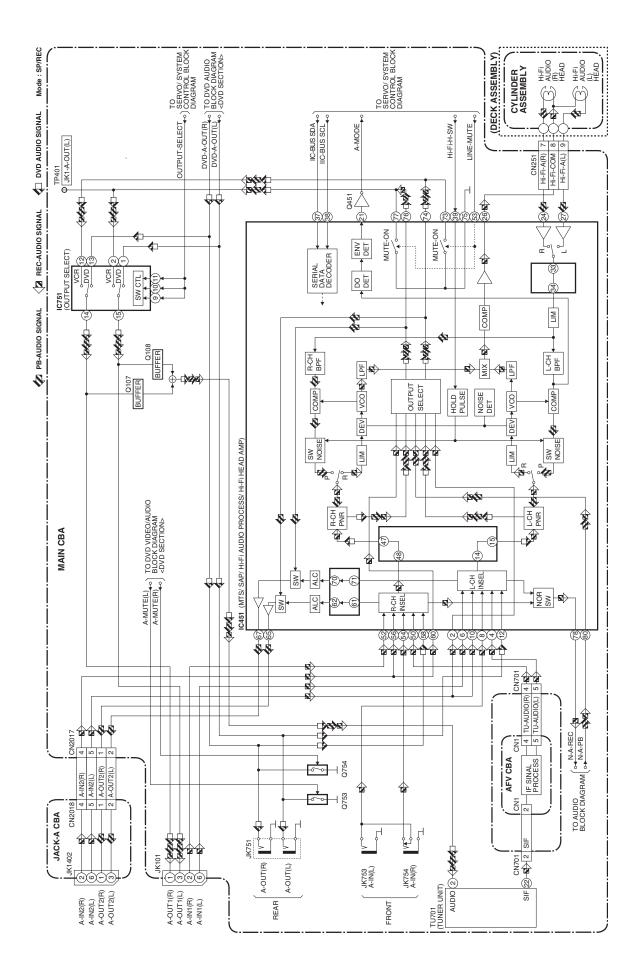
1-11-2 H9740BLV

Audio Block Diagram



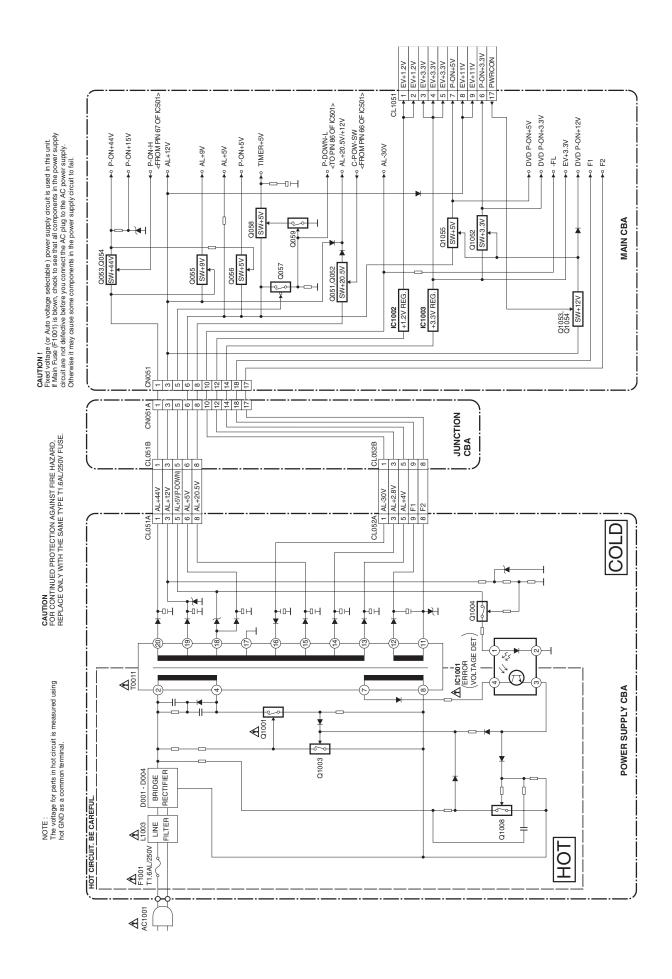
1-11-3 H9740BLA

Hi-Fi Audio Block Diagram



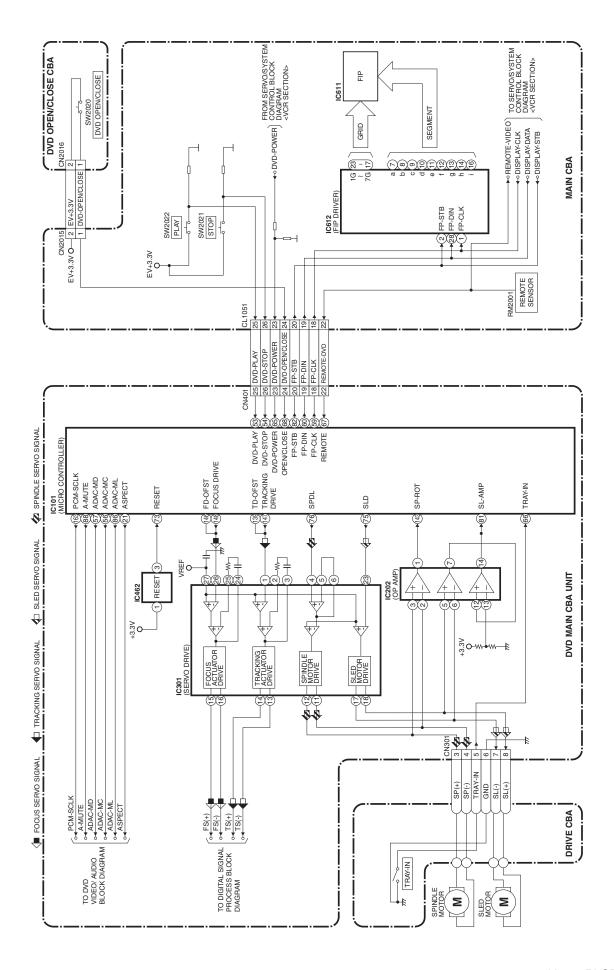
1-11-4 H9740BLH

Power Supply Block Diagram



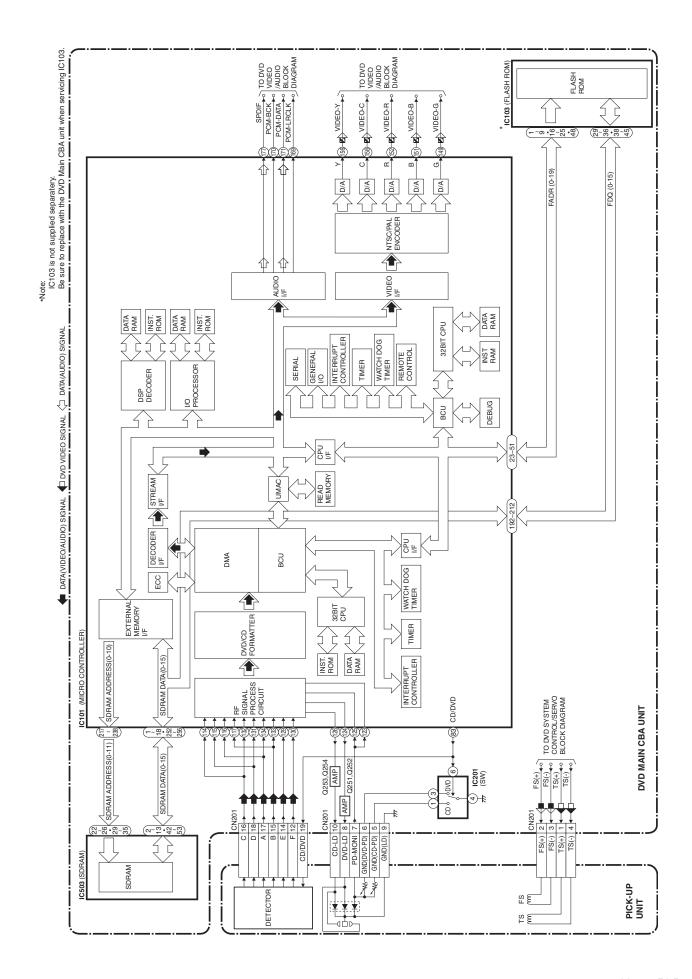
1-11-5 H9740BLP

BLOCK DIAGRAMS < DVD SECTION > DVD System Control / Servo Block Diagram



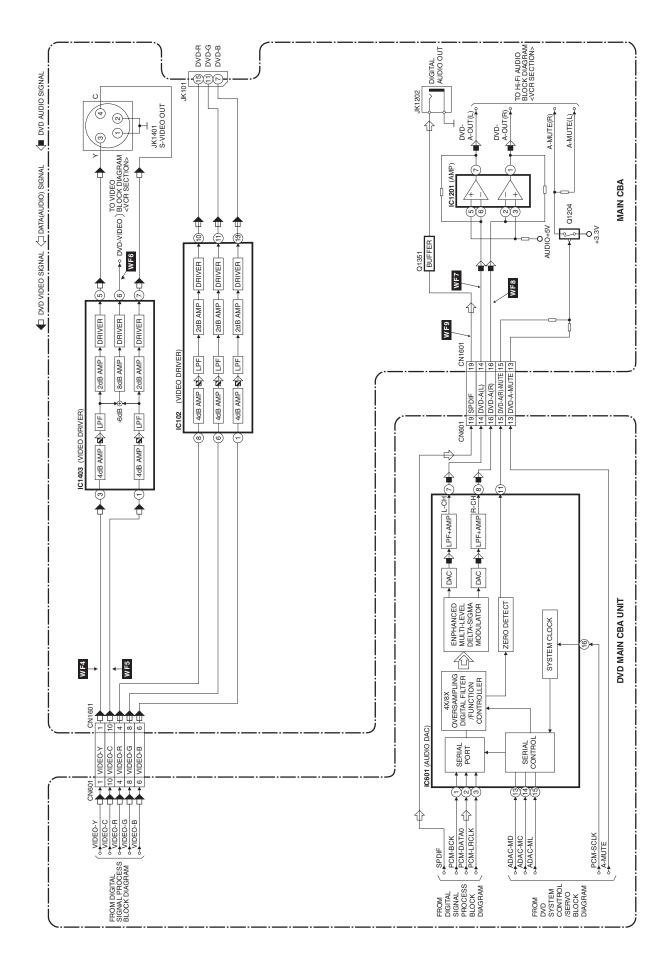
1-11-6 H9740BLSD

Digital Signal Process Block Diagram



1-11-7 H9740BLD

DVD Video / Audio Block Diagram



1-11-8 H9740BLVD

FUNCTION INDICATOR SYMBOLS

Note:

The following symbols will appear on the indicator panel to indicate the current mode or operation of the VCR. On-screen modes will also be momentarily displayed on the tv screen when you press the operation buttons.

MODE	INDICATOR ACTIVE								
When reel and capstan mechanism is not functioning correctly	"≜R" is displayed on a TV screen. (Refer to Fig. 1.)								
When tape loading mechanism is not functioning correctly	"≜T" is displayed on a TV screen. (Refer to Fig. 2.)								
When cassette loading mechanism is not functioning correctly	"≜C" is displayed on a TV screen. (Refer to Fig. 3.)								
When the drum is not working properly	"≜D" is displayed on a TV screen. (Refer to Fig. 4.)								
P-ON Power safety detection	"≜P" is displayed on a TV screen. (Refer to Fig. 5.)								

TV screen

Note:

OSD for mechanical error will be displayed for 5 sec. after the mechanical error occurs.

When reel and capstan mechanism is not functioning correctly



Fig. 1

When tape loading mechanism is not functioning correctly



Fig. 2

When cassette loading mechanism is not functioning correctly



When the drum is not working properly



P-ON Power safety detection



Fig. 3

SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

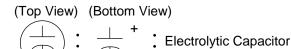
Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " ____ " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Capacitor Temperature Markings

Mark	Capacity change rate	Standard temperature	Temperature range					
(B)	±10%	20°C	-25~+85°C					
(F)	+30 - 80%	20°C	-25~+85°C					
(SR)	±15%	20°C	-25~+85°C					
(Z)	+30 - 80%	20°C	-10~+70°C					

Capacitors and transistors are represented by the following symbols.

CBA Symbols

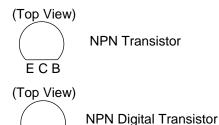


(Bottom View)

ECB



Transistor or Digital Transistor





(Top View)

PNP Transistor

PNP Digital Transistor

Notes:

- Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
- All resistance values are indicated in ohms (K=10³, M=10⁶).
- 3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
- 4. All capacitance values are indicated in μ F (P=10⁻⁶ μ F).
- All voltages are DC voltages unless otherwise specified
- 6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

Schematic Diagram Symbols

Digital Transistor

1-12-1 H9740SC

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. CAUTION:

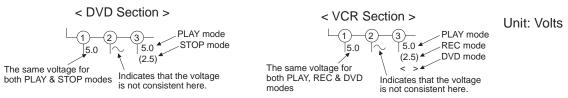
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

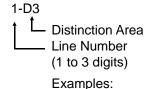
3. Note:

- (1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- (2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications for PLAY modes on the schematics are as shown below:

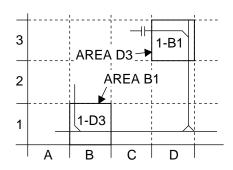


5. How to read converged lines



1. "1-D3" means that line number "1" goes to area "D3".

2. "1-B1" means that line number "1" goes to area "B1".



6. Test Point Information

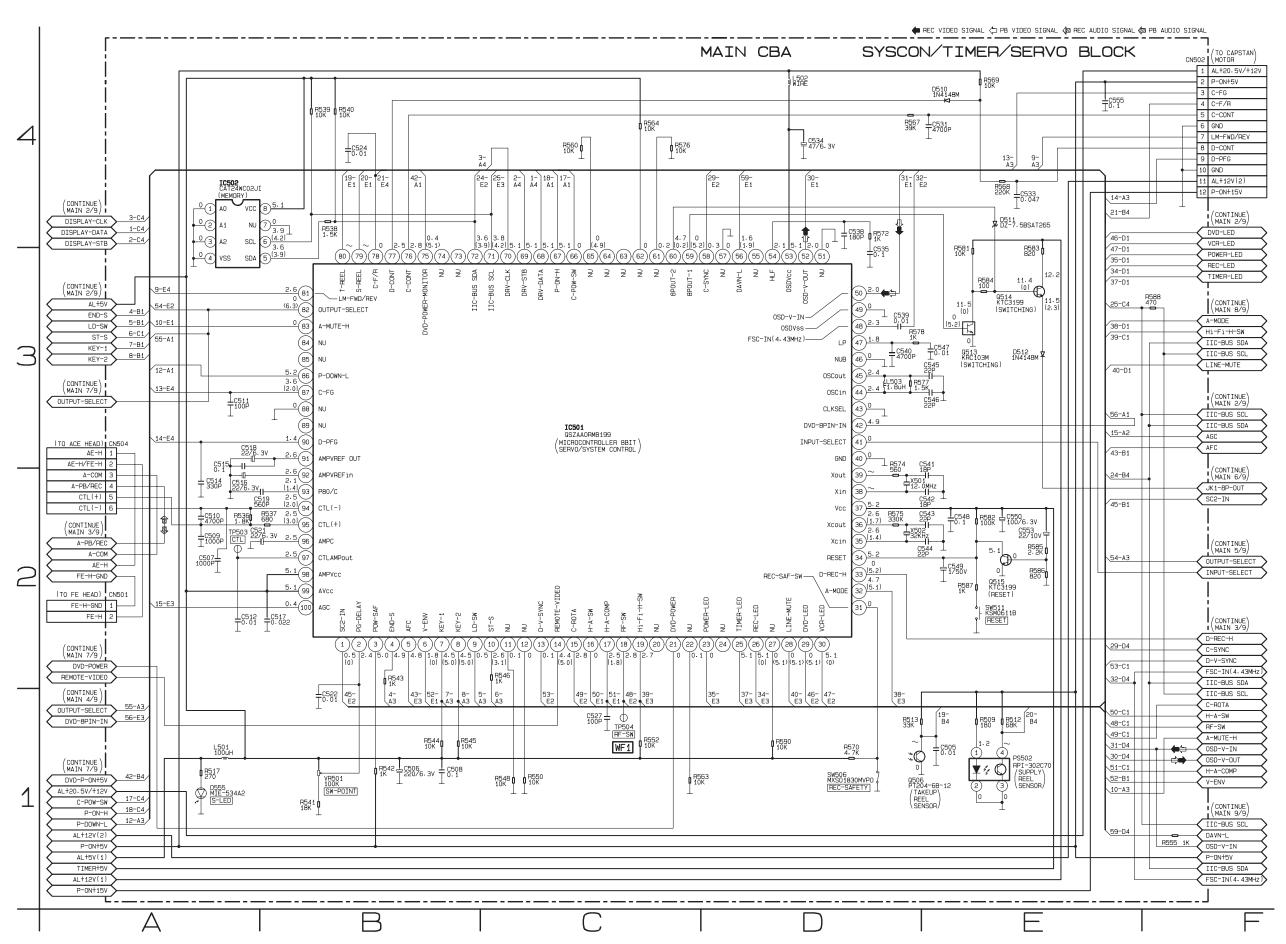
: Indicates a test point with a jumper wire across a hole in the PCB.

⇒ : Used to indicate a test point with a component lead on foil side.

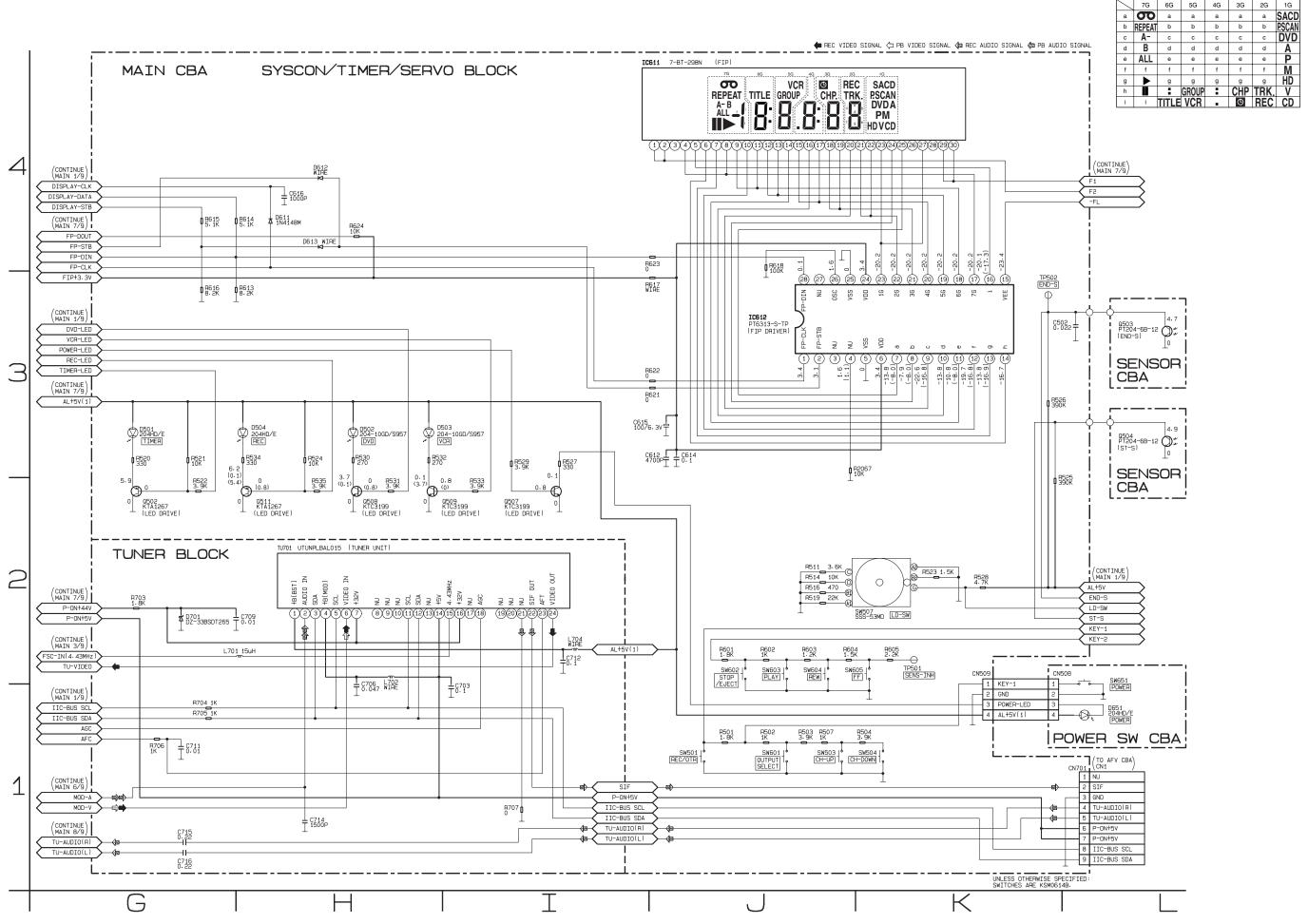
: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

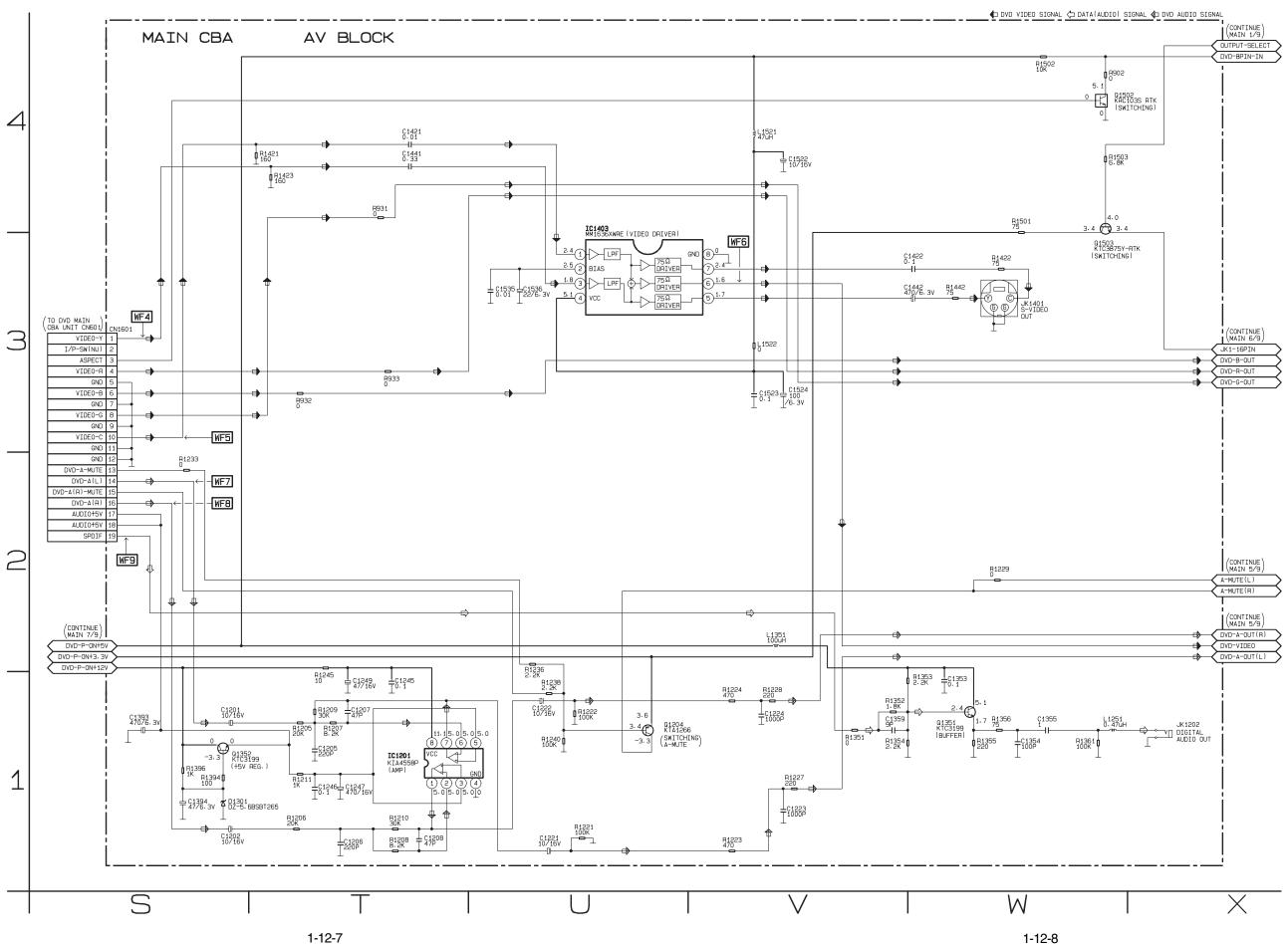
1-12-2 H9740SC

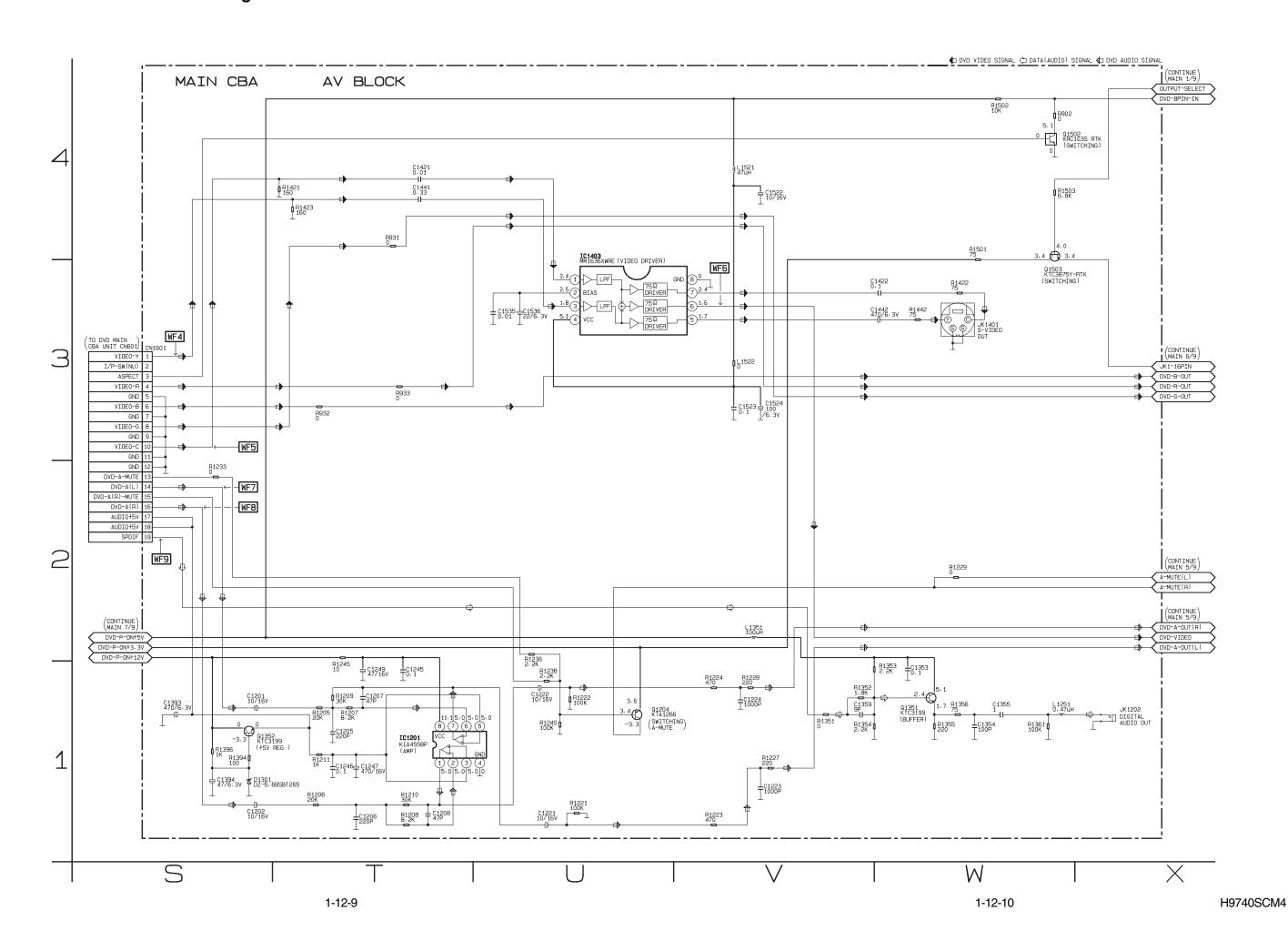


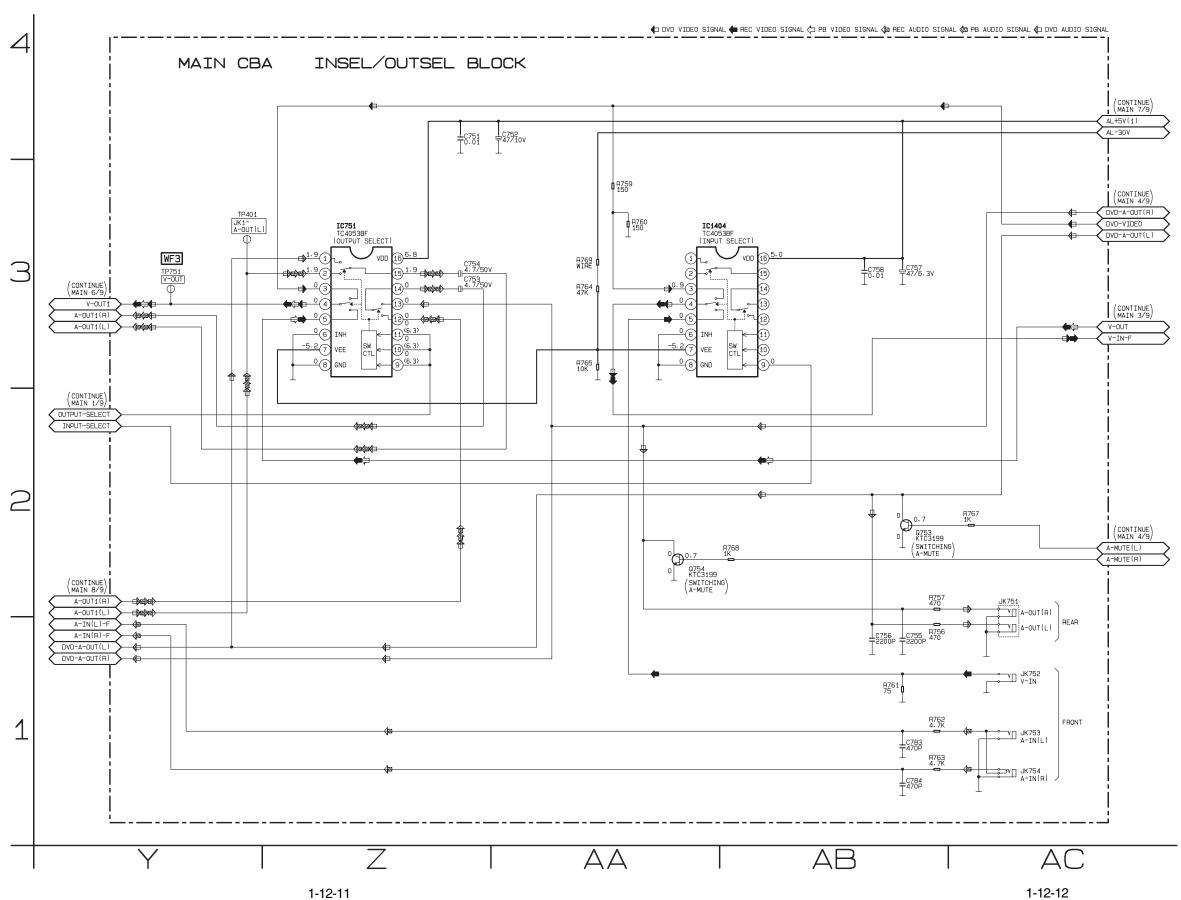
1-12-5



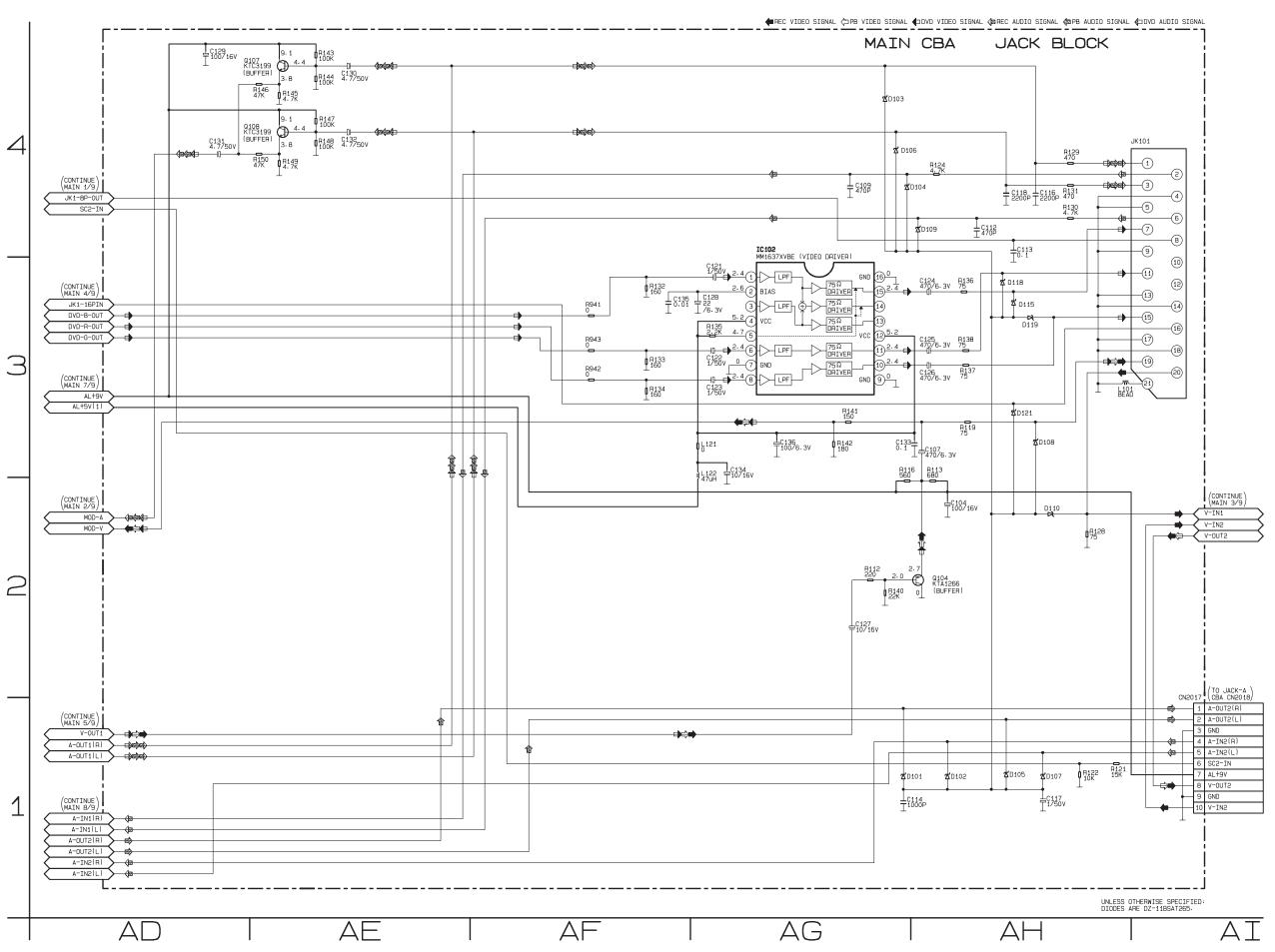
IC611 MATRIX CHART

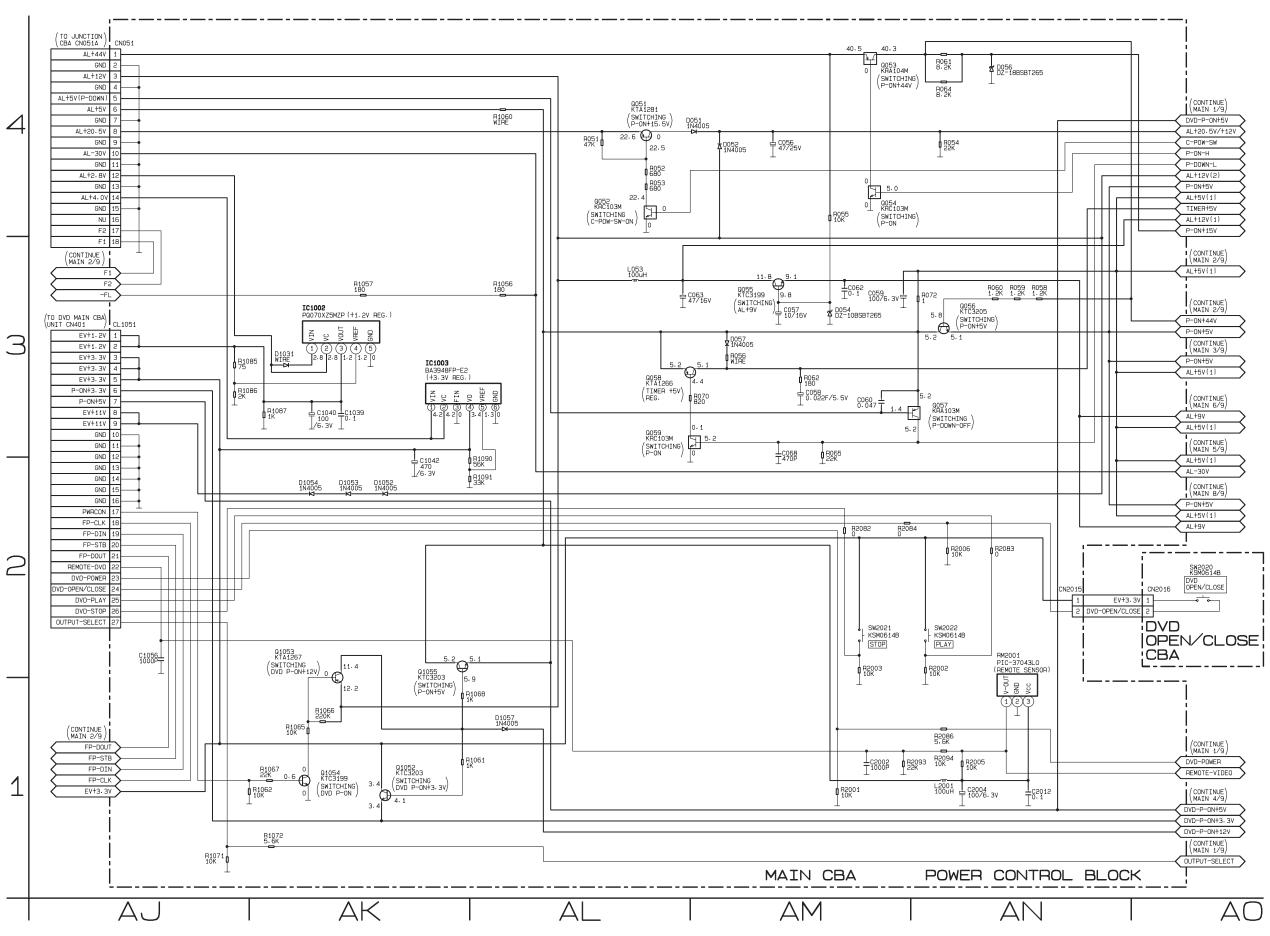


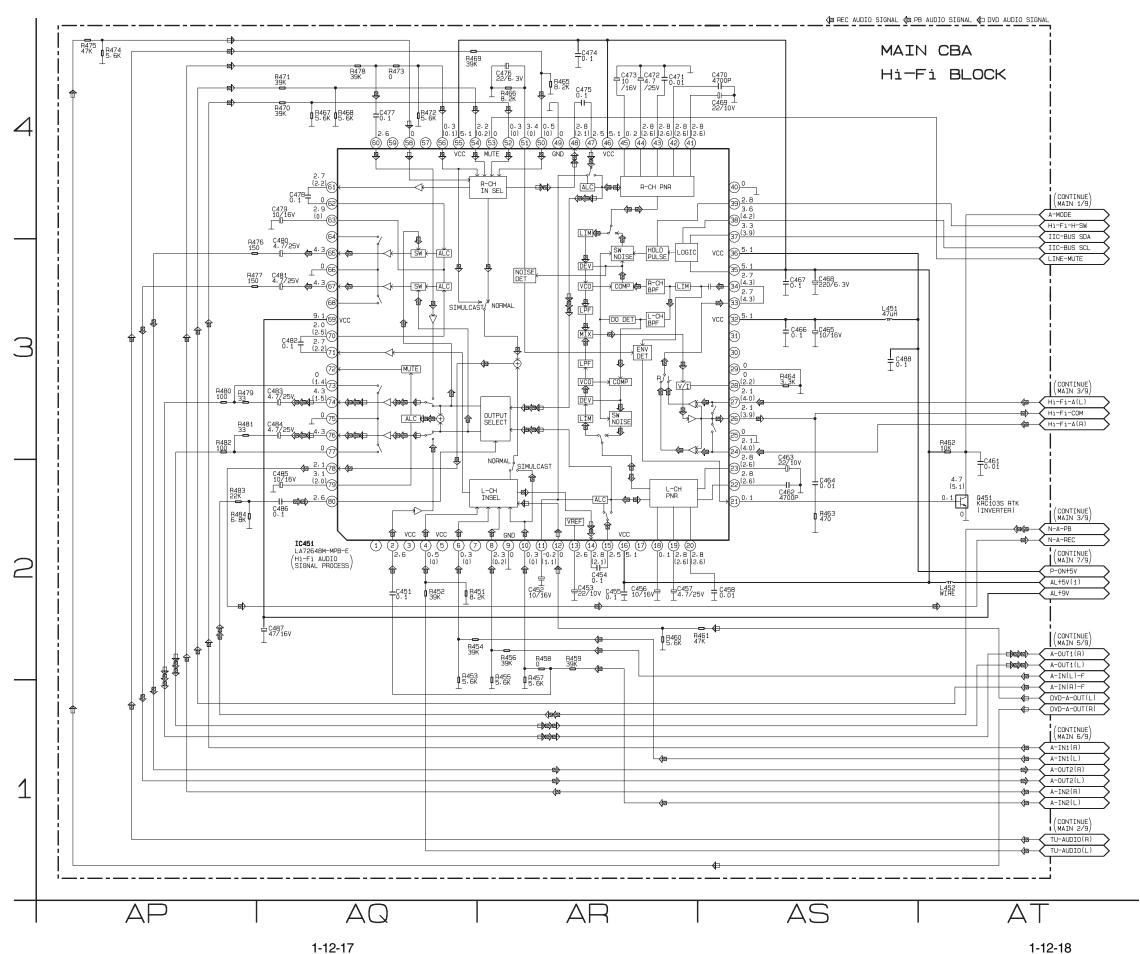


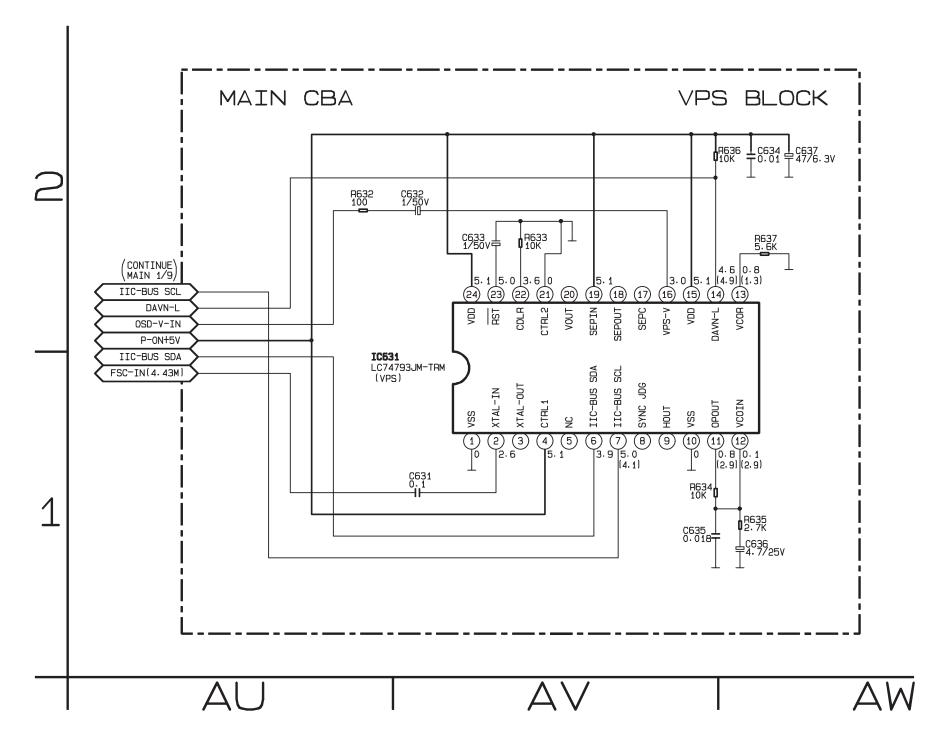


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1-12-19 1-12-20 H9740SCM9

Power Supply & Junction Schematic Diagram < VCR Section >

CAUTION!

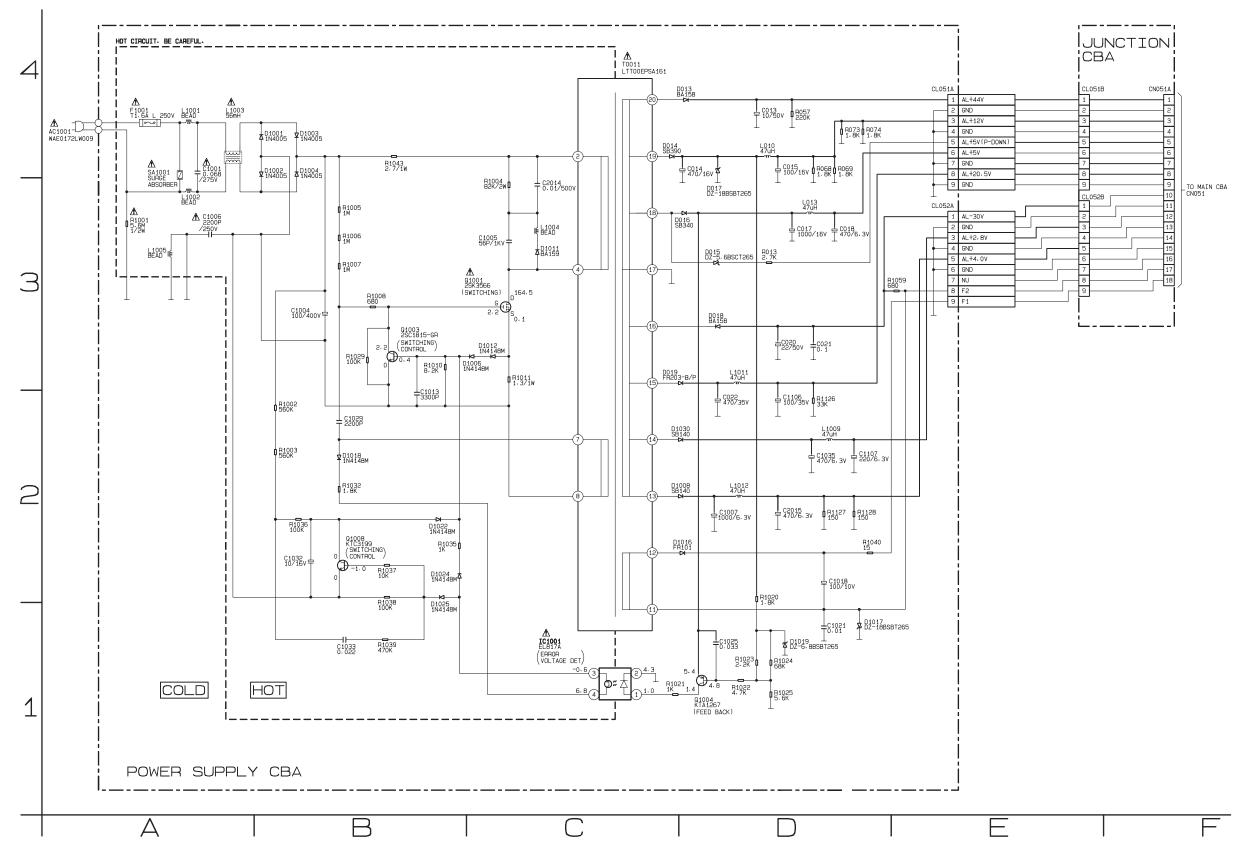
For continued protection against fire hazard, replace only with the same type fuse.

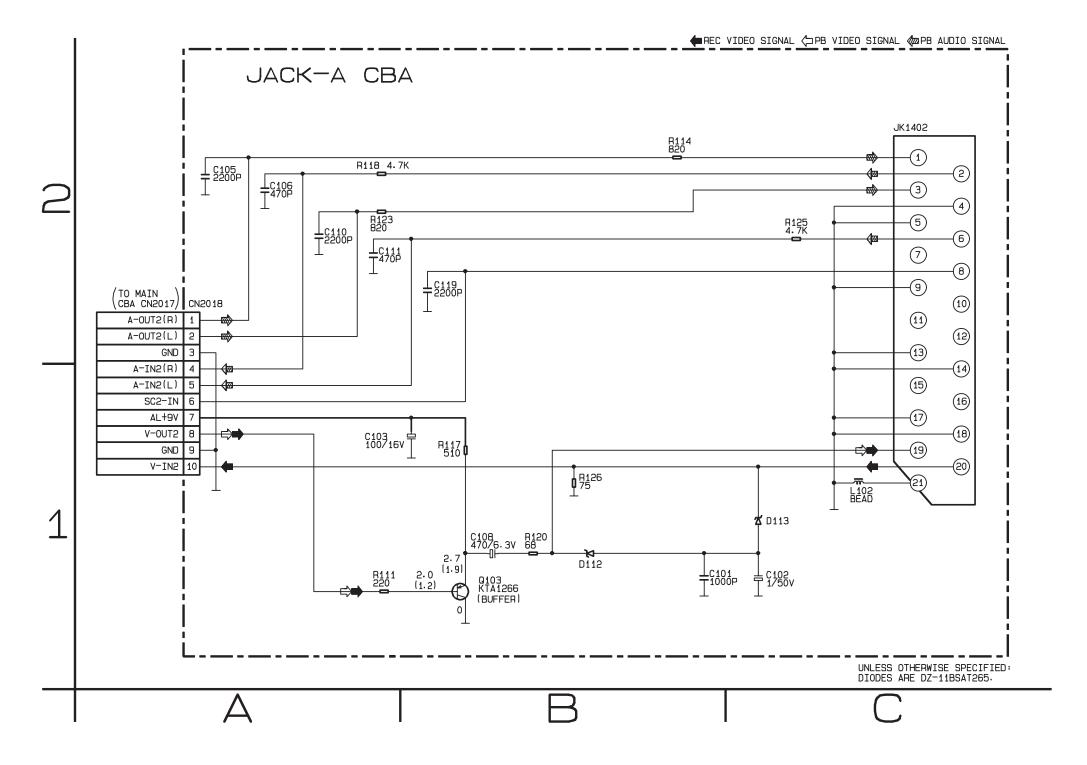
NOTE:

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

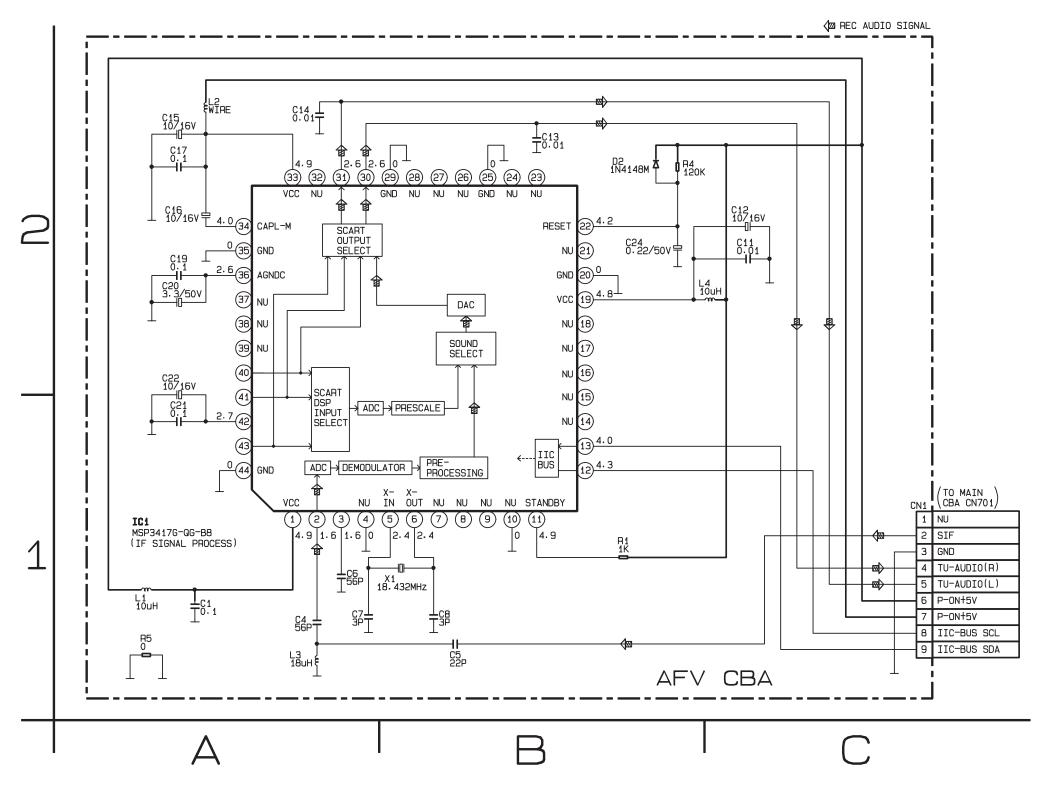
CAUTION!

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

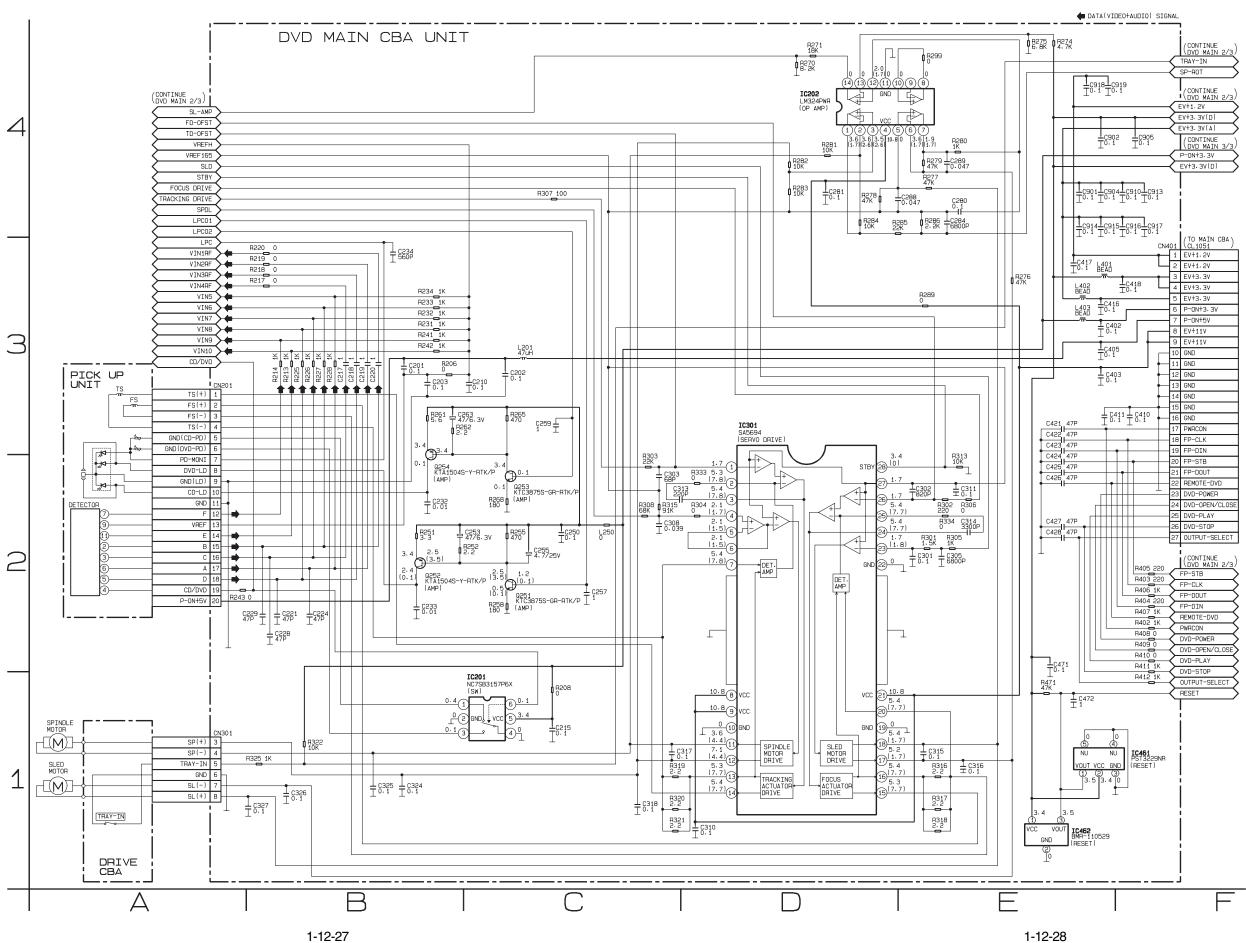


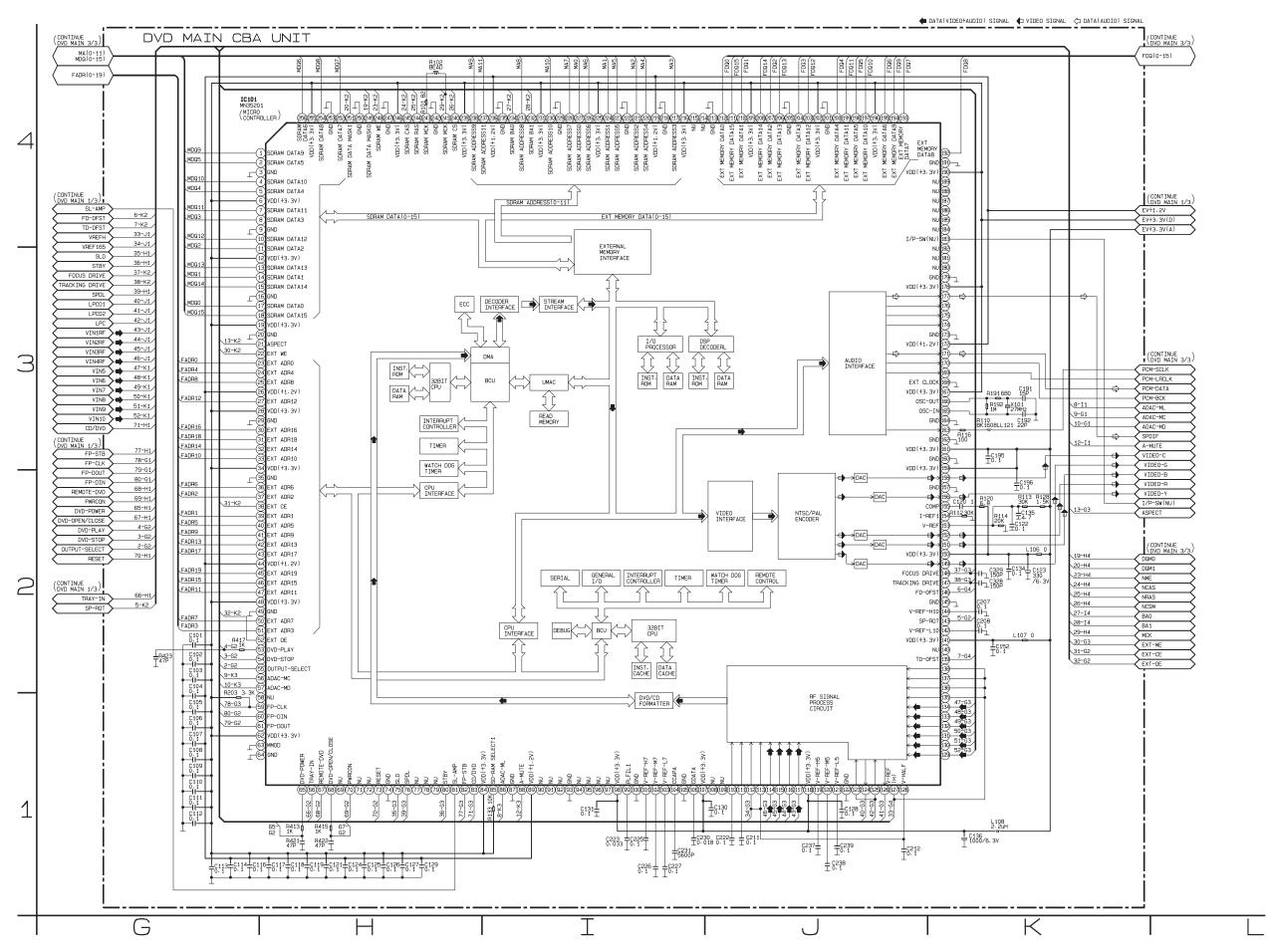


1-12-23 H9740SCJ



1-12-25 1-12-26 H9740SCAFV





IC101 VOLTAGE CHART

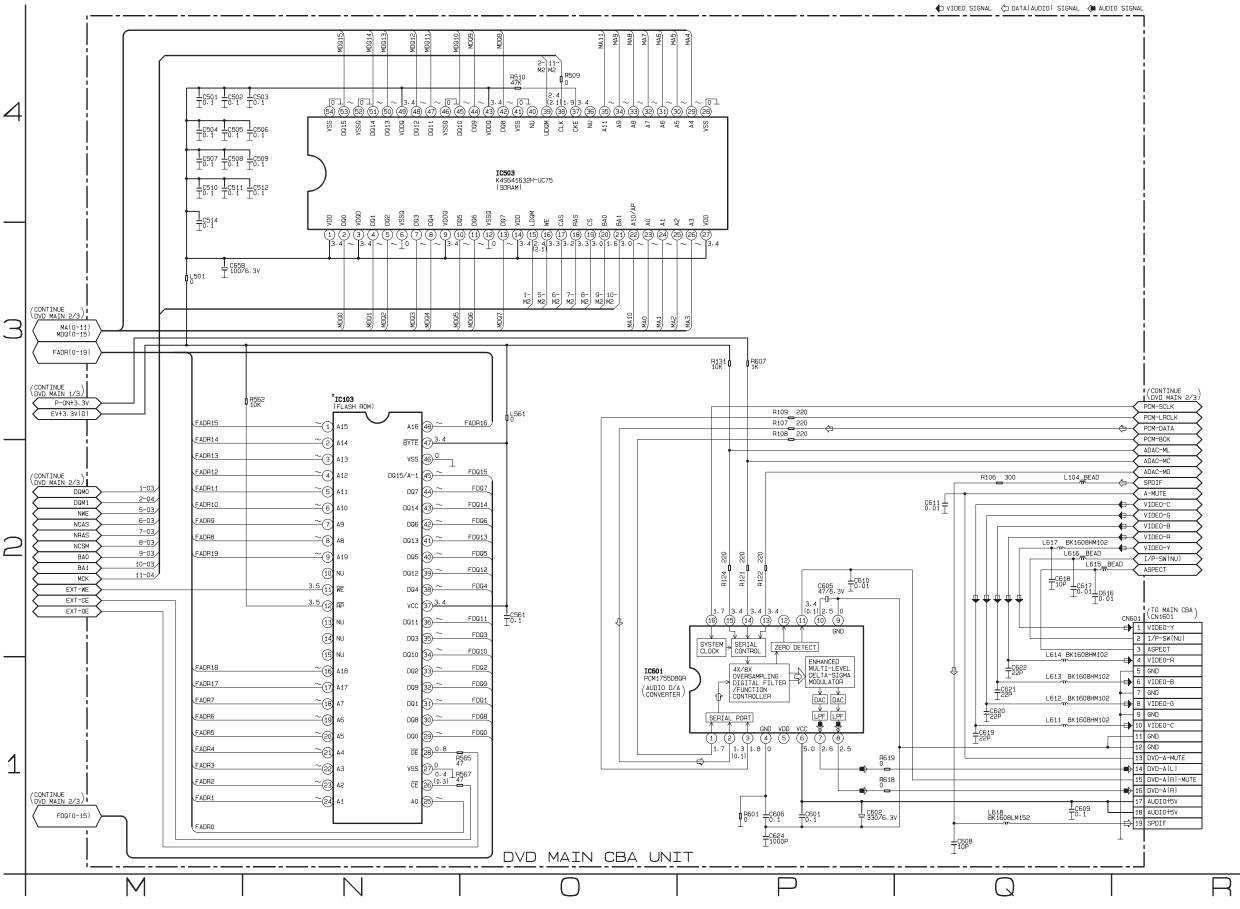
PIN.NO	PLAY	STOP																					
1	~	٧	33	~	~	65	0	0	97			129	2.3	2.3	161	3.4	3.4	193	٠	~	225	3.4	3.4
2	~	٧	34	3.4	3.4	66	3.4	3.5	98	3.4	3.4	130	2.3	2.3	162	0	0	194	۲	~	226	~	~
3	0	0	35	0	0	67	3.2	3.2	99	0.9	0.8	131	2.3	2.3	163	1.8	1.8	195	٠	~	227	~	~
4	~	~	36	~	~	68	0	0	100	0	0	132	2.4	2.3	164	0	0	196	3.4	3.4	228	~	~
5	~	?	37	~	~	69			101	2.4	2.4	133	2.4	2.4	165	1.7	1.8	197	~	~	229	0	0
6	3.4	3.4	38	0.4	0.3	70	3.4	3.4	102	2.2	2.2	134	2.4	2.4	166	1.7	1.7	198	~	~	230	~	~
7	~	?	39	~	~	71			103	1.9	1.9	135	2.3	2.3	167	3.4	3.4	199	۲	?	231	3.4	3.4
8	~	?	40	~	~	72			104	0.4	0.3	136	2.3	2.3	168	0	0	200	۲	?	232	1.3	1.6
9	0	0	41	~	~	73	3.4	3.4	105	0	0	137	2.3	2.3	169	1.8	1.8	201	0	0	233	~	~
10	~	~	42	~	~	74	0	0	106	1.7	1.7	138	2.3	2.3	170	1.7	1.7	202	3.4	3.4	234	1.9	2.3
11	~	~	43	~	~	75	1.7	1.8	107	3.4	3.4	139	1.7	1.7	171	1.3	0.1	203	~	~	235	0	0
12	3.4	3.4	44	1.3	1.3	76	2.3	1.8	108			140			172	1.3	1.3	204	~	~	236	1.3	1.3
13	~	~	45	~	~	77			109			141	3.4	3.4	173	0	0	205	0	0	237	~	~
14	~	~	46	~	~	78			110	1.9	1.9	142	1.3	1.3	174			206	~	~	238	~	~
15	~	~	47	~	~	79			111	1.9	1.9	143	2.1	1.7	175			207	~	~	239	3.4	3.4
16	0	0	48	3.4	3.4	80	3.4	0.1	112	1.7	1.7	144	2.2	2.2	176			208	~	~	240	3.4	3.3
17	~	~	49	0	0	81	0.1	0.1	113	1.7	1.7	145	0	0	177	1.8	1.7	209	3.4	3.4	241	1.9	1.9
18	~	~	50	~	~	82	2.8	2.8	114	1.7	1.7	146	1.7	1.7	178	3.4	3.5	210	~	~	242	0	0
19	3.4	3.4	51	~	~	83	0.1	0.1	115	1.7	1.7	147	1.8	1.7	179	0	0	211	~	~	243	1.9	1.9
20	0	0	52	0.8	0.8	84	3.4	3.4	116	1.7	1.7	148	1.7	1.7	180			212	~	~	244	3.4	3.3
21	0.1	0.1	53	0	0	85	0.1	0.1	117	1.7	1.7	149	0.6	0.5	181			213	0	0	245	3.4	3.4
22	3.5	3.5	54	0	0	86	3.6	3.4	118	3.4	3.4	150	3.4	3.4	182			214			246	3.4	3.4
23	~	~	55	1.4	1.4	87	0	0	119	2.0	2.0	151	0.5	0.6	183	3.5	3.5	215			247	0	0
24	~	~	56	3.4	3.4	88	3.5	0.1	120	1.7	1.7	152	0.5	0.4	184			216	3.4	3.4	248	3.3	3.4
25	~	~	57	3.5	3.5	89	1.3	1.3	121	1.5	1.5	153	1.4	1.3	185			217	~	~	249	3.2	3
26	1.3	1.3	58			90			122	0	0	154	1.4	1.3	186			218	0	0	250	0	0
27	~	~	59	3.4	3.4	91			123	0.3	0.1	155	2.4	2.4	187			219	1.3	1.3	251	3.2	3.0
28	3.4	3.4	60	3.4	3.4	92			124	1.2	0.1	156	3.4	3.4	188			220	~	~	252	~	~
29	0	0	61	3.5	3.5	93	0	0	125	0.3	0.1	157	0	0	189			221	~	~	253	0	0
30	~	~	62	3.4	3.4	94			126	0.1	0.1	158	0.9	0.9	190	3.4	3.5	222	0	0	254	~	~
31	~	~	63	0	0	95			127	2.3	2.3	159	3.4	3.4	191	0	0	223	~	~	255	3.4	3.4
32	~	~	64	0	0	96			128	1.7	1.7	160	0	0	192	~	~	224	~	~	256	~	~

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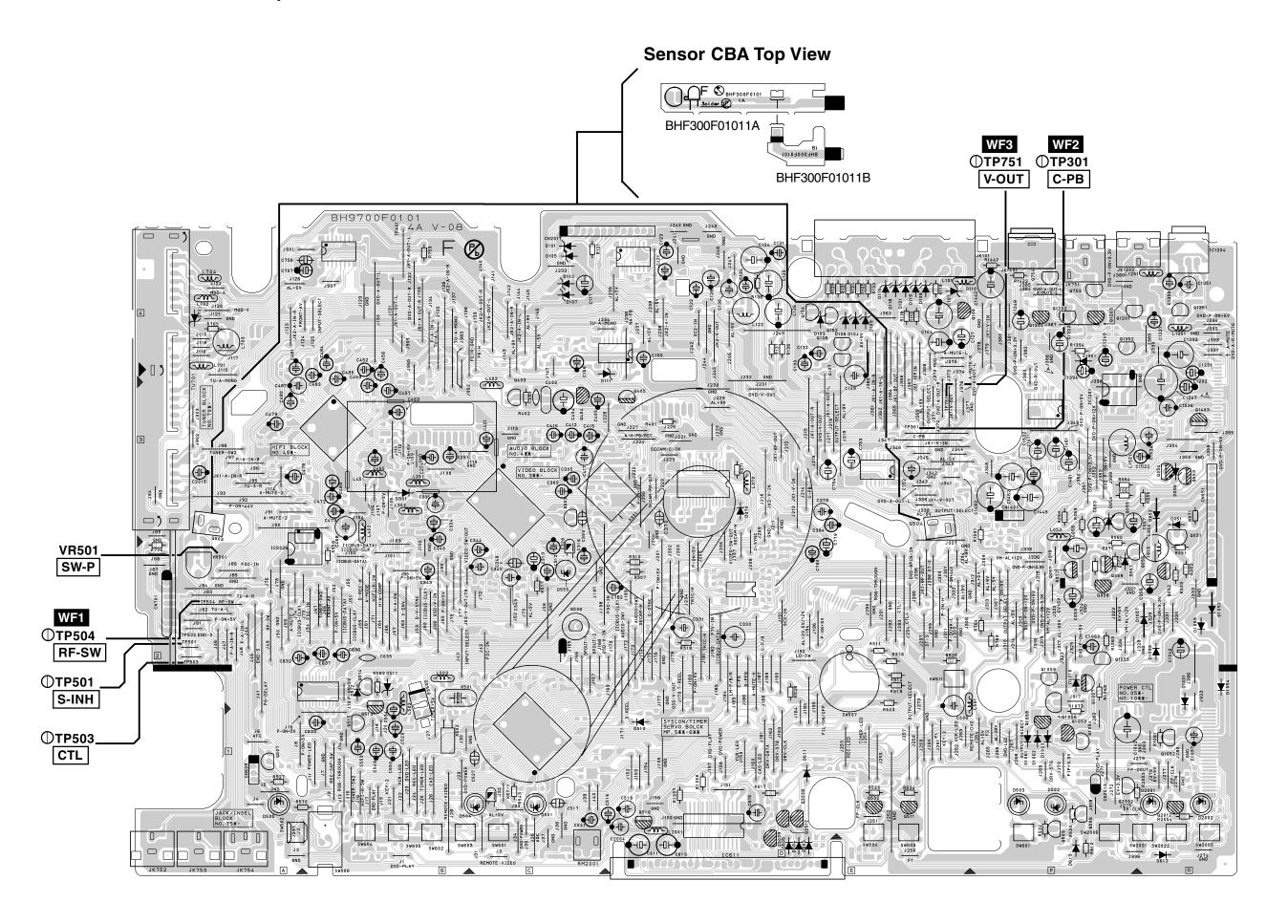
DVD Main 3/3 Schematic Diagram < DVD Section >

* Note

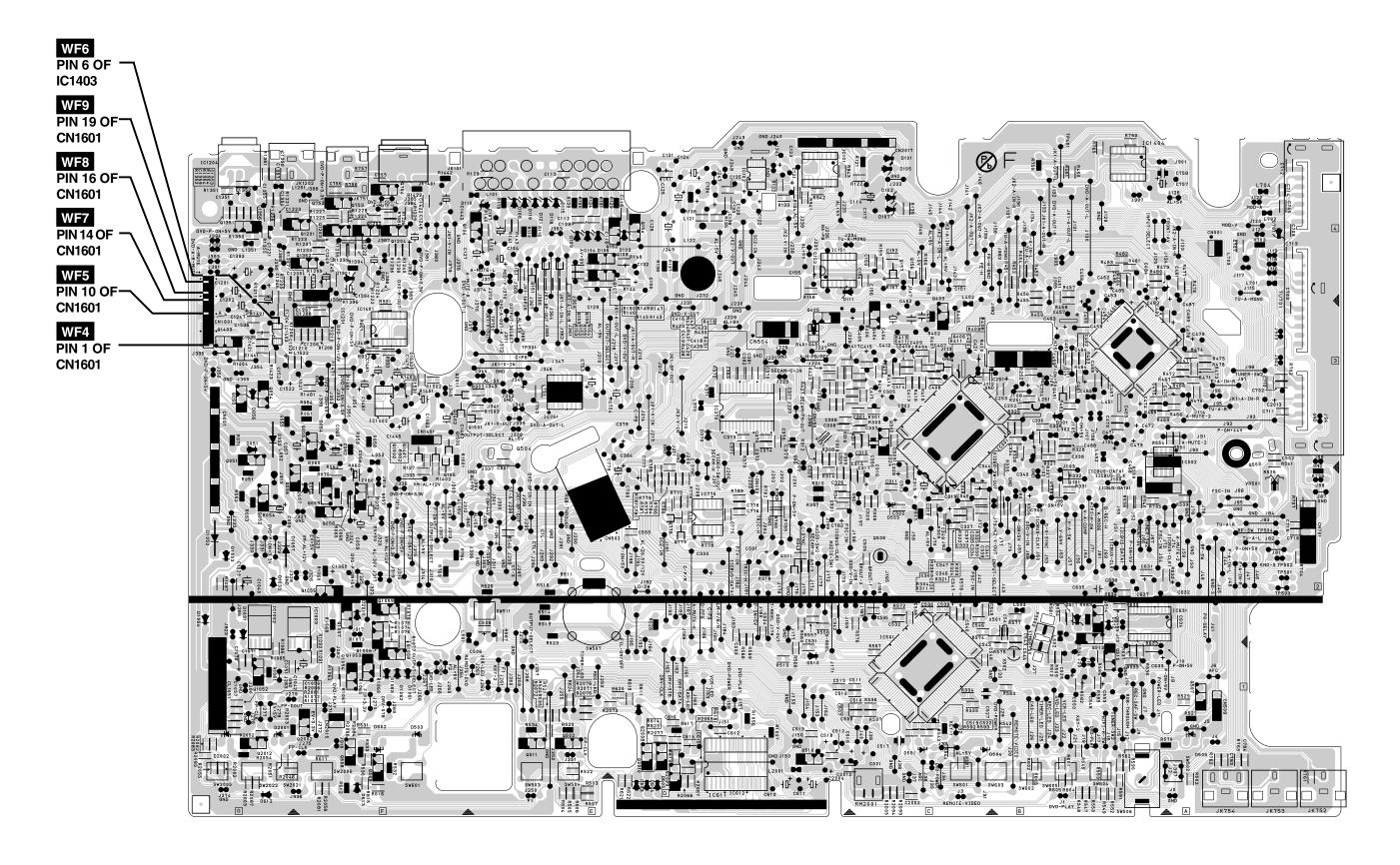
IC103 is not supplied separately. Be sure to replace with the DVD Main CBA unit when servicing IC103.

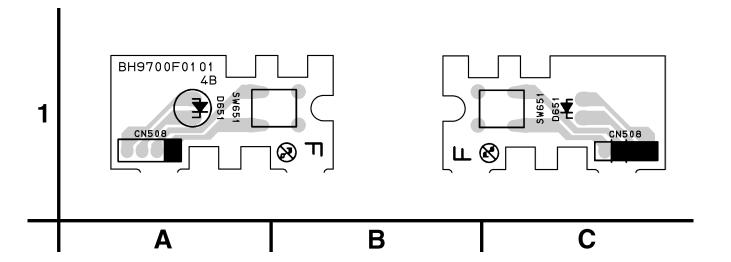


Main CBA & Sensor CBA Top View



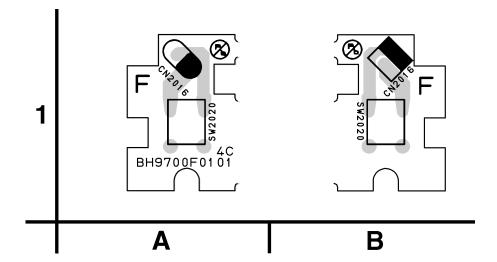
Main CBA Bottom View





BH9700F01014B

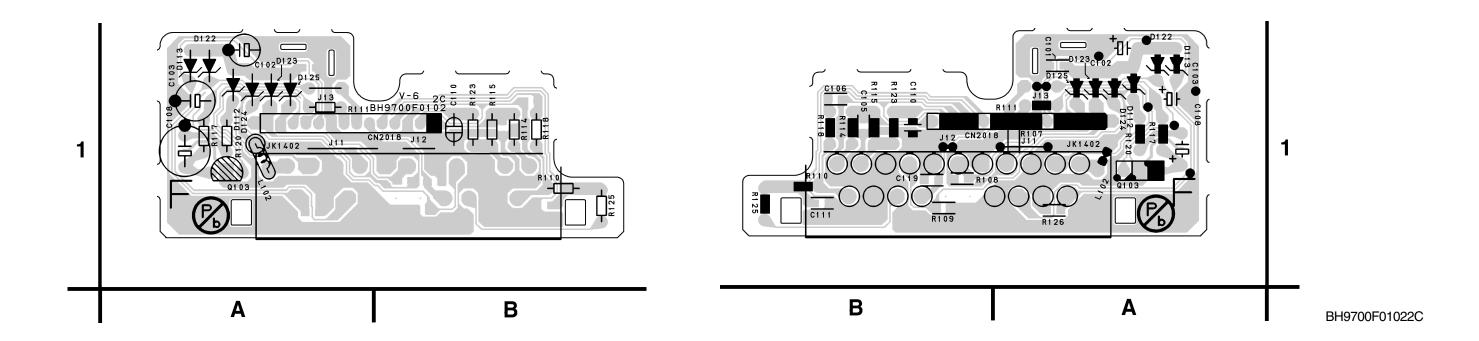
DVD Open/Close CBA Top View **DVD Open /Close CBA Bottom View**



BH9700F01014C

1-12-39

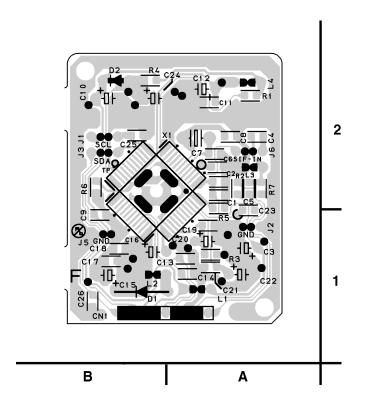
Jack-A CBA Bottom View



AFV CBA Top View

2 L4 C12 BHC 40 0 F 01 0 9 X1 J3 SDA 1 1 A B B B A B

AFV CBA Bottom View



BHC400F01093

1-12-41

Power Supply CBA Top View

Power Supply CBA Bottom View

CAUTION!

For continued protection against fire hazard, replace only with the same type fuse.

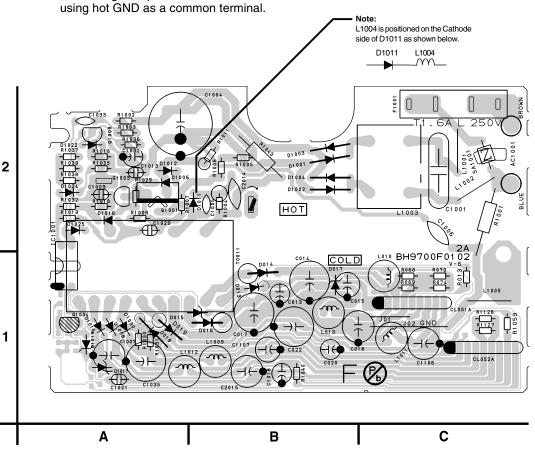
NOTE:

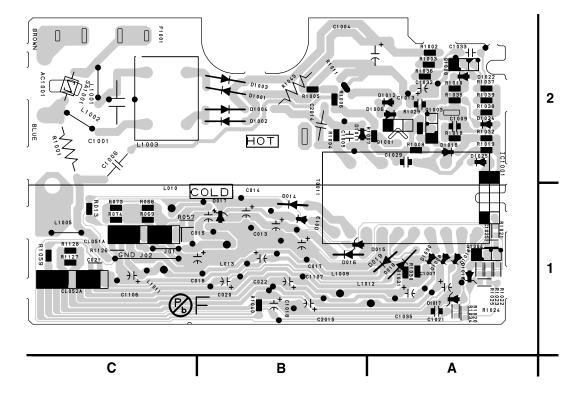
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION!

Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED. ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.



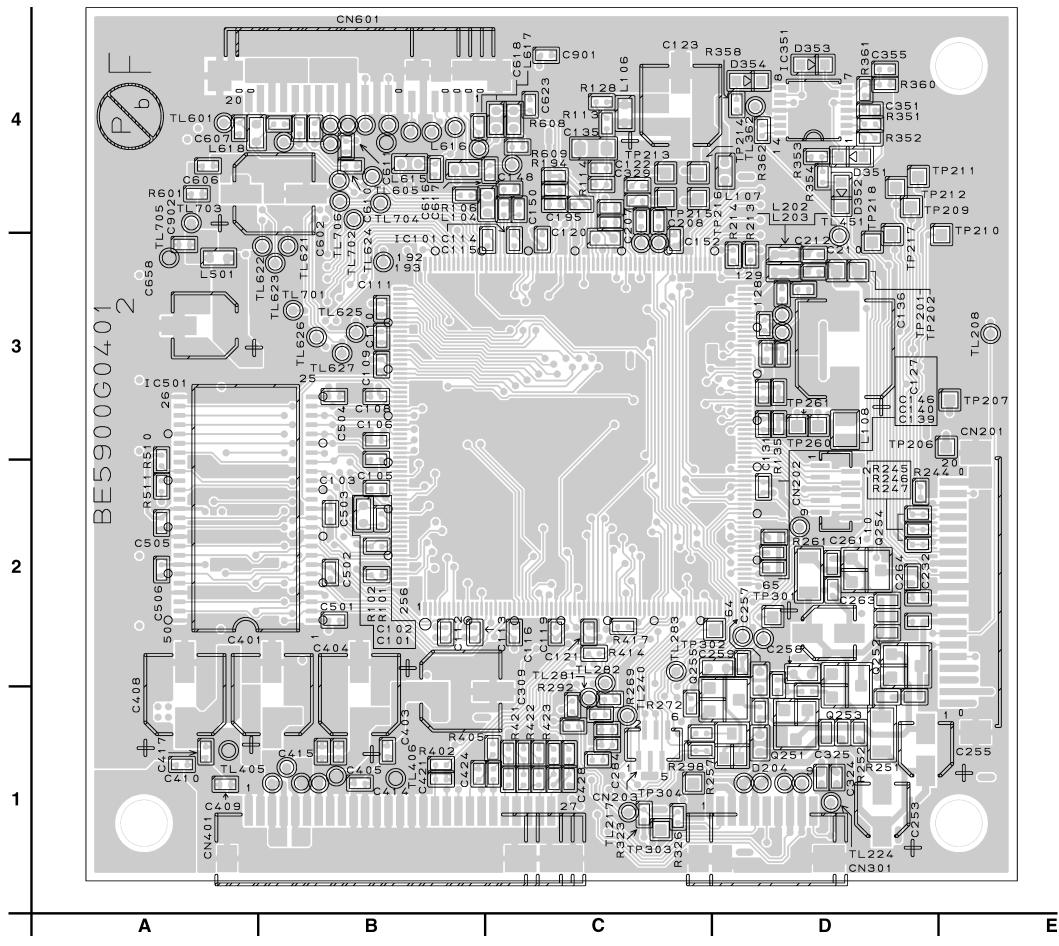


BH9700F01022A

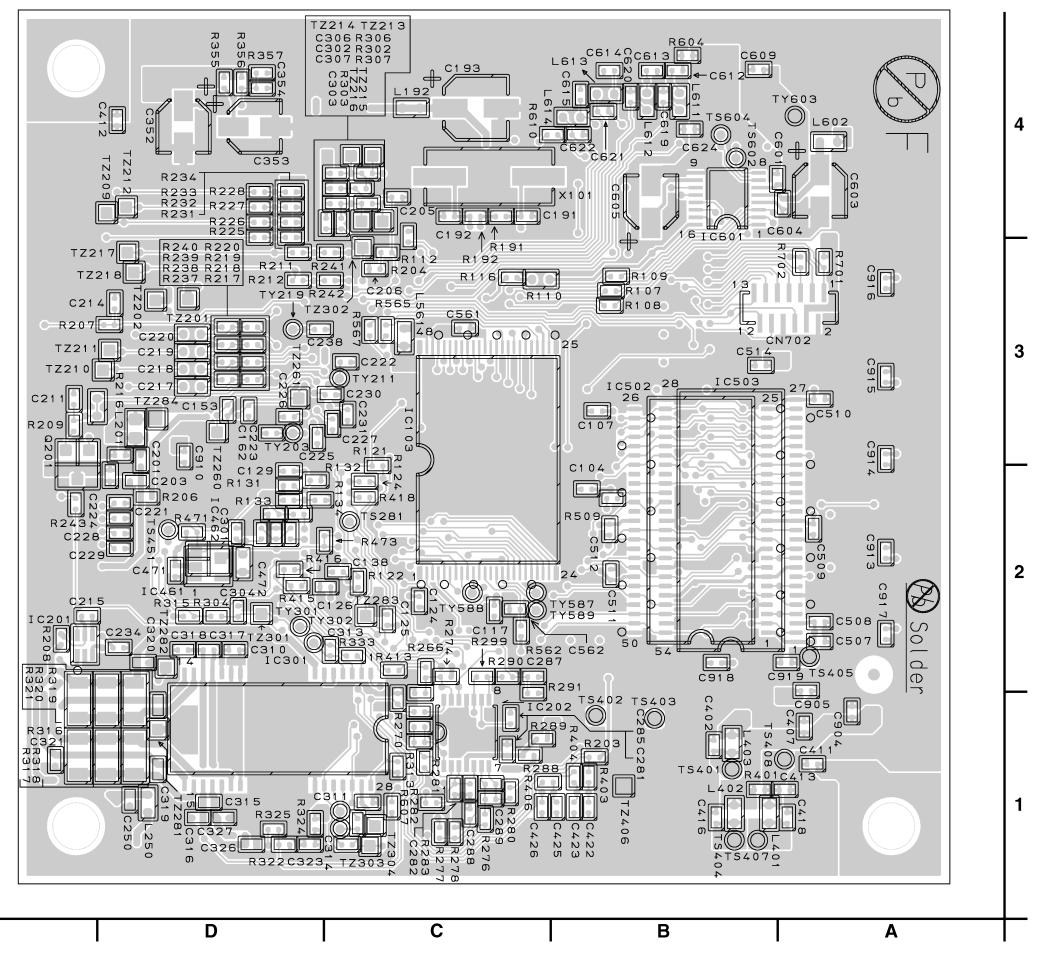
Junction CBA Top View Bottom View 1 A B Junction CBA Bottom View A B B

BH9700F01022B

1-12-43



1-12-45 BE5900G04012



1-12-47 1-12-48 BE5900G04012

WAVEFORMS

NOTE:

Input

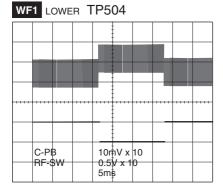
VCR: COLOR BAR SIGNAL

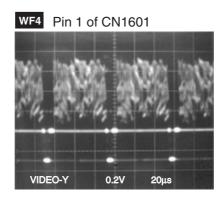
(WF1~WF3)

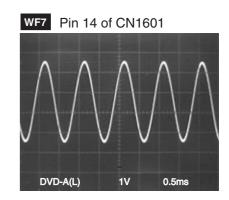
DVD: POWER ON (STOP) MODE

(WF4~WF6) CD: 1kHz PLAY (WF7~WF9)

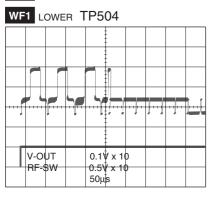
WF2 UPPER TP301

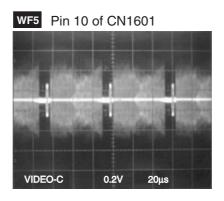


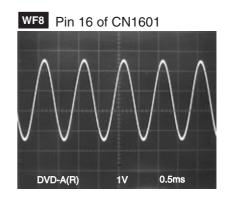




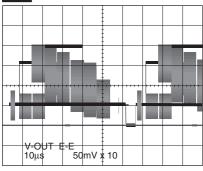
WF3 UPPER TP751



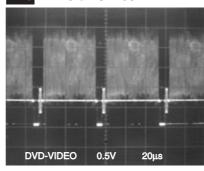




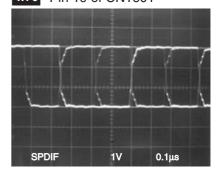
WF3 TP751



WF6 Pin 6 of IC1403

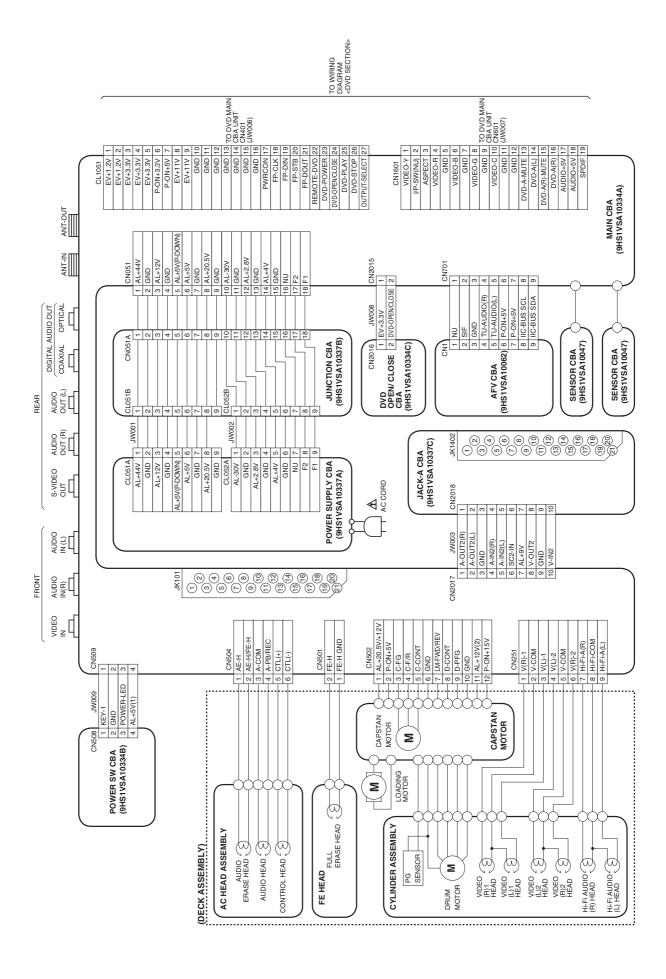


WF9 Pin 19 of CN1601



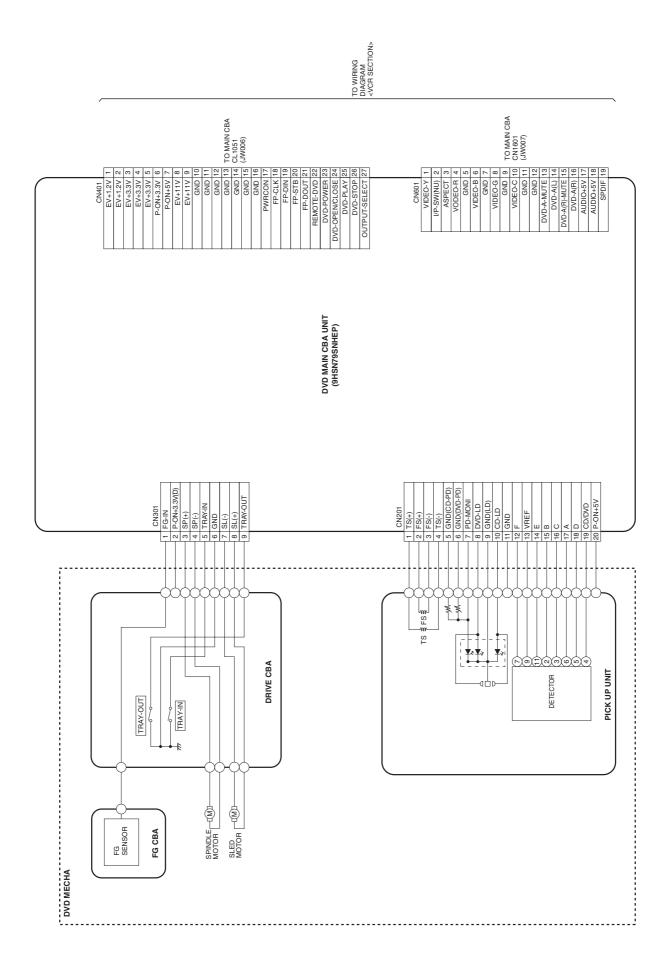
1-13-1 H9740WF

WIRING DIAGRAM < VCR SECTION >



1-14-1 H9740WI

WIRING DIAGRAM < DVD SECTION >



1-14-2 H9740WID

IC PIN FUNCTION DESCRIPTIONS

[VCR Section]

IC501(SERVO / SYSTEM CONTROL IC)

"H" \geq 4.5V, "L" \leq 1.0V

	1	H ≥4.3V, L ≤1.0V		
Pin No.	IN/ OUT	Signal Name	Function	Active Level
1	IN	SC2-IN	Input Signal from Pin 8 of SCART2	A/D
2	IN	PG-Delay	Video Head Switching Pulse Signal Adjusted Voltage	A/D
3	IN	POW-SAF	P-ON Power Detection Input Signal	A/D
4	IN	END-S	Tape End Position Detect Signal	A/D
5	IN	AFC	Automatic Frequency Control Signal	A/D
6	IN	V-ENV	Video Envelope Comparator Signal	A/D
7	IN	KEY-1	Key Scan Input Signal 1	A/D
8	IN	KEY-2	Key Scan Input Signal 2	A/D
9	IN	LD-SW	Deck Mode Position Detector Signal	A/D
10	IN	ST-S	Tape Start Position Detector Signal	A/D
11	-	NU	Not Used	-
12	-	NU	Not Used	-
13	OUT	D-V- SYNC	Dummy V-sync Output	H/Hi-z
14	IN	REMOTE- VIDEO	Remote Control Sensor	L
15	OUT	C-ROTA	Color Phase Rotary Changeover Signal	H/L
16	OUT	H-A-SW	Video Head Amp Switching Pulse	H/L
17	IN	H-A-COMP	Head Amp Comparator Signal	H/L
18	OUT	RF-SW	Video Head Switching Pulse	H/L
19	OUT	Hi-Fi-H-SW	HiFi Audio Head Switching Pulse	H/L
20	OUT	FRONT-AV	Front AV Output Signal	Z/L
21	OUT	DVD- POWER	DVD Power Control Signal	Н

Pin No.	IN/ OUT	Signal Name	Function	Active Level
22	-	NU	Not Used	-
23	OUT	POWER- LED	"POWER" LED Signal Output	H/L
24	-	NU	Not Used	-
25	-	NU	Not Used	-
26	-	NU	Not Used	-
27	-	NU	Not Used	-
28	OUT	LINE- MUTE	Audio Mute Control Signal	Н
29	OUT	DVD-LED	"DVD" LED Signal Output	H/L
30	OUT	VCR-LED	"VCR" LED Signal Output	H/L
31	IN	REC-SAF- SW	Recording Safety SW Detect (With Record tab="L"/ With out Record tab="H")	H/L
32	IN	A-MODE	Hi-Fi Tape Detection Signal	L
33	OUT	D-REC-H	Delayed Record Signal	Н
34	IN	RESET	System Reset Signal (Reset="L")	L
35	IN	XCin	Sub Clock	-
36	OUT	XCOUT	Sub Clock	-
37	-	Vcc	Vcc	-
38	IN	Xin	Main Clock Input	-
39	OUT	Xout	Main Clock Input	-
40	-	GND	Vss(GND)	-
41	OUT	INPUT SELECT	Input Selector Control Signal	H/L
42	IN	DVD-8PIN- IN	SCART 8Pin DVD Input Control Signal	H/L
43	IN	CLKSEL	Clock Select (GND)	L
44	IN	OSCin	Clock Input for letter size	-
45	OUT	OSCout	Clock Output for letter size	-
46	-	NUB	Not Used	-
47	IN	LP	LP	-
48	IN	FSC-IN [4.43MHz]	4.43MHz Clock Input	-
49	-	OSDVss	OSDVss	-
50	IN	OSD-V-IN	OSD Video Signal Input	-

1-15-1 H9740PIN

Pin No.	IN/ OUT	Signal Name	Function	Active Level
51	-	NU	Not Used	-
52	OUT	OSD-V- OUT	OSD Video Signal Output	-
53	-	OSDVcc	OSDVcc	-
54	-	HLF	LPF Connected Terminal (Slicer)	-
55	1	NU	Not Used	1
56	IN	DAVN-L	VPS/PDC Data Receive="L"	L
57	-	NU	Not Used	-
58	IN	C-SYNC	Composite Synchronized Pulse	PULSE
59	OUT	8POUT-1	Control SCART 1 8Pin Level by using 8POUT-1 and 8POUT-2	H/L
60	OUT	8POUT-2	Control SCART 1 8Pin Level by using 8POUT-1 and 8POUT-2	Hi-z/L
61	-	NU	Not Used	-
62	-	NU	Not Used	-
63	-	NU	Not Used	-
64	-	NU	Not Used	-
65	-	NU	Not Used	-
66	OUT	C-POW-SW	Capstan Power Switching Signal	H/L
67	OUT	P-ON-H	Power On Signal at High	Н
68	OUT	DRV-DATA	VFD Driver IC Control Data	H/L
69	OUT	DRV-STB	VFD Driver IC Chip Select Signal	H/L
70	OUT	DRV-CLK	VFD Driver IC Control Clock	H/L
71	OUT	IIC-BUS- SCL	IIC BUS Control Clock	H/L
72	IN/ OUT	IIC-BUS- SDA	IIC BUS Control Data	H/L
73	-	NU	Not Used	-
74	-	NU	Not Used	-
75	IN	DVD- POWER- MONITOR	DVD Power Monitor Signal (P-off="L", P- on="H")	H/L
76	OUT	C-CONT	Capstan Motor Control Signal	PWM
77	OUT	D-CONT	Drum Motor Control Signal	PWM

Pin No.	IN/ OUT	Signal Name	Function	Active Level
78	OUT	C-F/R	Capstan Motor FWD/REV Control Signal (FWD="L"/ REV="H")	H/L
79	IN	S-REEL	Supply Reel Rotation Signal	PULSE
80	IN	T-REEL	Take Up Reel Rotation Signal	PULSE
81	OUT	LM-FWD/ REV	Loading Motor Control Signal	H/L/ Hi-z
82	OUT	OUTPUT- SELECT	Output Select	H/L
83	OUT	A-MUTE-H	Audio Mute Control Signal (Mute ="H")	Н
84	-	NU	Not Used	-
85	-	NU	Not Used	-
86	IN	P-DOWN-L	Power Voltage Down Detector Signal	L
87	IN	C-FG	Capstan Motor Rotation Detection Pulse	PULSE
88	-	NU	Not Used	-
89	-	NU	Not Used	-
90	IN	D-PFG	Drum Motor Phase/ Frequency Generator	PULSE
91	-	AMPVREF OUT	V-Ref for CTL AMP	-
92	-	AMPVREF in	V-Ref for CTL AMP	-
93	-	P80/C	P80/C Terminal	-
94	IN/ OUT	CTL -	Playback/Record Control Signal (-)	H/L
95	IN/ OUT	CTL+	Playback/Record Control Signal (+)	H/L
96	-	AMPC	CTL AMP Connected Terminal	1
97	-	CTLAMP out	To Monitor for CTL AMP Output	PULSE
98	-	AMPVcc	AMPVcc	-
99	-	AVcc	A/D Converter Power Input/ Standard Voltage Input	-
100	IN	AGC	IF AGC Comparator Signal	A/D

Notes:

Abbreviation for Active Level:
PWM -----Pulse Wide Modulation
A/D------Analog - Digital Converter

1-15-2 H9740PIN

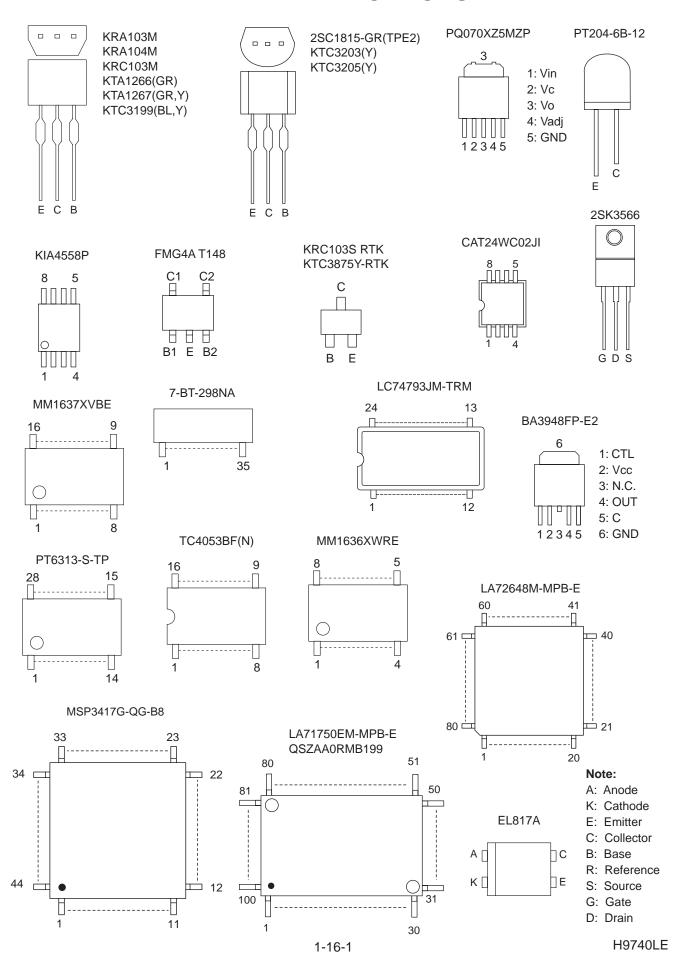
[DVD Section]

IC612 (PT6313-S -TP)

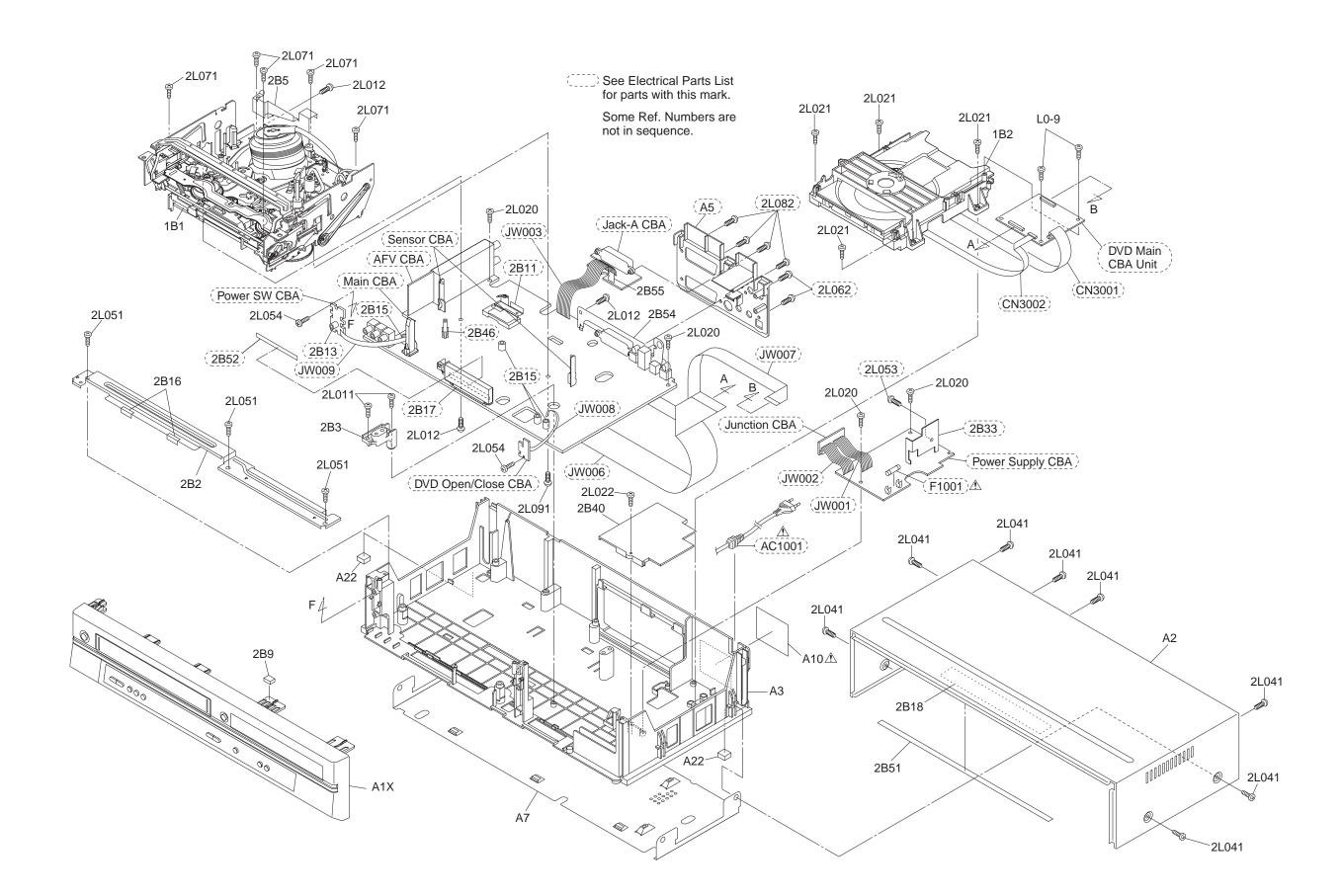
Pin No.	In/Out	Signal Name	Name Function
1	In	FP-CLK	Clock Input
2	In	FP-STB	Serial Interface Strobe
3	-	NU	Not Used
4	-	NU	Not Used
5	-	VSS	GND
6	-	VDD	Power Supply
7	Out	а	
8	Out	b	
9	Out	С	
10	Out	d	Segment Output
11	Out	е	Segment Output
12	Out	f	
13	Out	g	
14	Out	h	
15	-	VEE	Pull Down Level
16	Out	i	Segment Output
17		7G	
18		6G	
19		5G	
20	Out	4G	Grid Output
21		3G	
22		2G	
23		1G	
24	-	VDD	Power Supply
25	-	VSS	GND
26	In	OSC	Oscillator Input
27	-	NU	Not Used
28	In	FP-DIN	Serial Data Input

1-15-3 H9740PIN

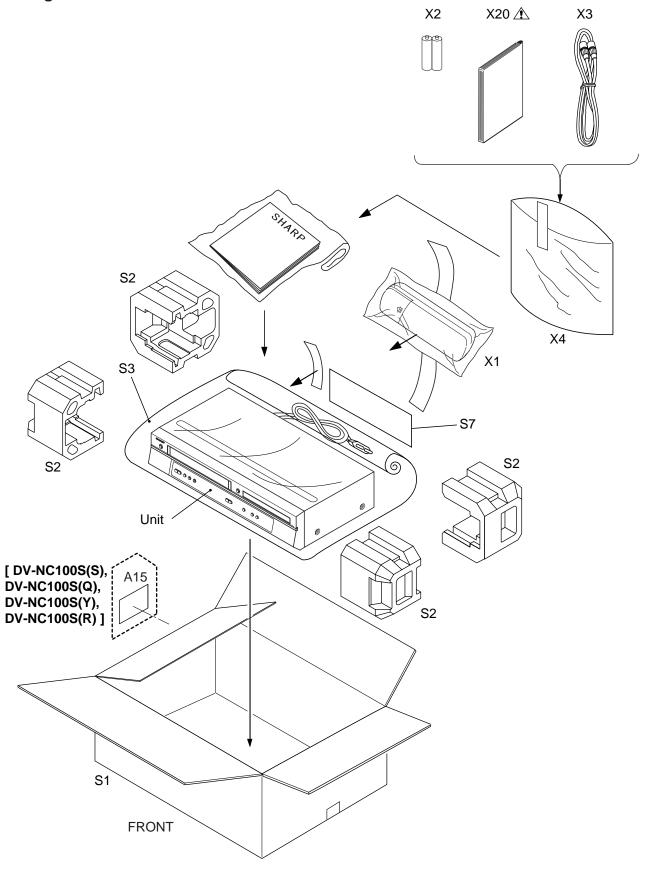
LEAD IDENTIFICATIONS



Cabinet



Packing



1-17-3 H9740PEX

MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a \triangle have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

COMPARISON OF MODELS

Model	Mark
DV-NC100S	А
DV-NC100S(S)	В
DV-NC100S(Q)	С
DV-NC100S(Y)	D
DV-NC100S(R)	Е

Ref. No.	Mark	Description	Part No.	Code
A1X		FRONT ASSEMBLY H9740ED	9HSHS1VM220083	AV
A2		TOP CASE(D5 PAL FTZ) H9700ED	9HS0VM101358	AR
A3		CHASSIS(D5 PAL FTZ) H9700ED	9HS0VM000205	AR
A7		BOTTOM PANEL(D5 RESET) H9740ED	9HS1VM320242	AR
A10 <u></u> ♠	Α	RATING LABEL H9740ED		
A10 <u></u> ♠	В	RATING LABEL H97D1ED		
A10 <u></u> ♠	С	RATING LABEL H97D2ED		
A10 <u></u> ♠	D	RATING LABEL H97D3ED		
A10 <u></u> ♠	Е	RATING LABEL H97D4ED		
A15	В	CASE MARK LABEL H97D1ED		
A15	С	CASE MARK LABEL H97D2ED		
A15	D	CASE MARK LABEL H97D3ED		
A15	E	CASE MARK LABEL H97D4ED	NotUsed	
A22		CHASSIS FOOT H79P9JD	9HS0VM412315	AC
1B1		DECK ASSEMBLY CZD013/VM23ED	9HSN23E0FL	BP
1B2		DVD MECHA(FG LESS) 0838 VCZL0500	9HSN79F0HVM	BS
2B2		TOP BRACKET H9700ED	9HS0VM204531	AH
2B3		RODER HOLDER H9600UD	9HS0VM306676	AB
2B5		SHEILD, CYLINDER H9700ED	9HS0VM306780	AD
2B9		CUSHION HC460ED	9HS0VM413251	AA
2B16		TAPE, HIMELON H9206JD	9HS0VM413956	AB
2B18		FIBER, TOP CASE HC460ED	9HS0VM412906	AF
2B40		PARTITION PLATE H9700ED	9HS0VM306765	AH
2B51		HIMELON TAPE H9640UD	9HS1VM420379	AC
2B54		PLATE, GROUND(RCA) H9700ED	9HS0VM306867	AC
2B55		PLATE, GROUND(21P) H9700ED	9HS0VM416444	AC
2L011		P-TIGHT SCREW 3X8 BIND +	9HSGBMP3080	AA
2L012		SCREW, S-TIGHT M3X6 BIND HEAD+	9HSGBMS3060	AA
2L020		P-TIGHT SCREW 3X8 BIND +	9HSGBMP3080	AA
2L021		SCREW, P-TIGHT 3X12 BIND HEAD+	9HSGBMP3120	AA
2L022		P-TIGHT SCREW 3X8 BIND +	9HSGBMP3080	AA
2L041		SCREW, P-TIGHT 3X10 BIND HEAD+	9HSGBCP3060	AA
2L051		SCREW, P-TIGHT M3X6 BIND HEAD+	9HSGBMP3060	AA
2L054		SCREW, P-TIGHT M3X6 BIND HEAD+	9HSGBMP3060	AA
2L071		SCREW, P-TIGHT M3X10 WASHER HEAD+	9HSGCMP3100	AA
2L091		SCREW, P-TIGHT M3X8 BIND HEAD+	9HSGBCP3080	AA
S1	A	GIFT BOX, CARTON H9740ED	9HS1VM320236	AX
S1	В	GIFT BOX, CARTON H97D1ED	9HS1VM320266	AX
S1	С	GIFT BOX, CARTON H97D2ED	9HS1VM320267	AX
S1	D	GIFT BOX, CARTON H97D3ED	9HS1VM320268	AX
S1	E	GIFT BOX, CARTON H97D4ED	9HS1VM320269	AX
S2		STYROFOAM H9600UD	9HS0VM204474	AG
S3		UNIT, BAG E5500UD	9HS0VM411683	AC
S7		REMOCON PAD H9645JD	9HS1VM420375	AK
X1		REMOTE CONTROL UNIT 364/CZF05DD	9HSNA526ED	AY
X2		DRY BATTERY R6P/2S	9HSB0M451T0001	AE
Х3		RF CORD PAL 1.2M	9HSPZ0122LG001	AL
X4		ACCESSORY BAG K8092BA	9HS0VM404632	AB
X20 <u>∱</u>	A	OWNER'S MANUAL H9740ED	9HS1VMN20134	AQ

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Ref. No.	Mark	Description	Part No.	Code
X20 <u>∱</u>	В	OWNER'S MANUAL H97D1ED	9HS1VMN20158	AQ
X20 <u>∱</u>	С	OWNER'S MANUAL H97D2ED	9HS1VMN20160	AQ
X20 <u>/</u> ♠	D	OWNER'S MANUAL H97D3ED	9HS1VMN20161	AQ
X20 <u>/</u> ₹	E	OWNER'S MANUAL H97D4ED	9HS1VMN20162	AQ

Test Tape

Ref. No.	Mark	Description	Part No.	Code
		Test Tape	9HSFL6A	BX
		Test Tape	9HSFL6HA	BX
		Test Tape	9HSFL6NS8	BX

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ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a \triangle have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that not assigned part numbers (-----) are not available.

2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25% D.....±0.5% F.....±1% G.....±2% J......±5% K.....±10%

M.....±20% N.....±30% Z.....+80/-20%

DVD MAIN CBA UNIT

Ref. No.	Description	Part No.	Code
	DVD MAIN CBA UNIT	9HSN79SNHEP	BW
	Consists of the following		
CAPACITORS			
C101	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C102	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C103	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C104	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C105	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C106	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C107	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C108	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C109	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C110	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C111	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C112	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C113	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C114	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C116	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C117	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C118	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C119	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C120	CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105	AC
C121	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C122	CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C123	CHIP ELECTROLYTIC CAP. 330μF/6.3V M(UD)	9HSA0K331NC182	AC
C124	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C125	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C126	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C127	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C128	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C129	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C130	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C131	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C134	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C135	CHIP CERAMIC CAP. F Z 4.7μF/16V(2012)	9HSHE1CZ30F475	AC
C136	CHIP ELECTROLYTIC CAP. 1000µF/6.3V M(UR)	9HSA0K102NC183	AD
C152	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C191	CHIP CERAMIC CAP.(1005) CH J 15pF/50V	9HSHB1JJ3CH150	AA
C192	CHIP CERAMIC CAP.(1005) CH J 22pF/50V	9HSHB1JJ3CH220	AA
C195	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C196	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C201	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C202	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C203	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C207	CHIP CERAMIC CAP.(1005) Β K 0.1μF/10V	9HSHB1AK30B104	AA
C208	CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C210	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C210	CHIP CERAMIC CAP.(1005) F 2 0.1μF/10V CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C211	CHIP CERAMIC CAP.(1005) B K 0.1µF/10V CHIP CERAMIC CAP.(1005) F Z 0.1µF/16V	9HSHB1CZ30F104	AA
C212 C215	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104 9HSHB1CZ30F104	AA
C215	CHIP CERAMIC CAP.(1005) F 2 0.1μF/10V CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105	AC
C217	CHIP CERAMIC CAP.(1608) B K 1µF/10V CHIP CERAMIC CAP.(1608) B K 1µF/10V	9HSHD1AK30B105 9HSHD1AK30B105	AC

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Ref. No.	Description	Part No.	Code
C219	CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105	AC
C220	CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105	AC
C221	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C222	CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C223	CHIP CERAMIC CAP.(1005) B K 0.033μF/16V	9HSHB1CK30B333	AA
C224	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C225	CHIP CERAMIC CAP (1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C226 C227	CHIP CERAMIC CAP.(1005) B K 0.1µF/10V	9HSHB1AK30B104	AA AA
C228	CHIP CERAMIC CAP.(1005) B K 0.1µF/10V CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1AK30B104 9HSHB1JJ3CH470	AA
C229	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C230	CHIP CERAMIC CAP.(1005) B K 0.018µF/25V	9HSHB1EK30B183	AA
C231	CHIP CERAMIC CAP.(1005) B K 5600pF/25V	9HSHB1EK30B562	AA
C232	CHIP CERAMIC CAP.(1005) B K 0.01μF/25V	9HSHB1EK30B103	AA
C233	CHIP CERAMIC CAP.(1005) B K 0.01μF/25V	9HSHB1EK30B103	AA
C234	CHIP CERAMIC CAP.(1005) B K 560pF/50V	9HSHB1JK30B561	AA
C237	CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C238	CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C239	CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C250	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C253	CHIP ELECTROLYTIC CAP. 47µF/6.3V M(WR)	9HSA0K470NC180	AC
C255 C257	CHIP ELECTROLYTIC CAP. 4.7µF/25V M(WX)	9HSA1E4R7NC181	AB
C257	CHIP CERAMIC CAP.(1608) B K 1μF/10V CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105 9HSHD1AK30B105	AC AC
C259 C263	CHIP CERAMIC CAP. (1608) Β Κ 1μΕ/10V CHIP ELECTROLYTIC CAP. 47μΕ/6.3V M(WR)	9HSA0K470NC180	AC
C280	CHIP ELECTROLYTIC CAP. 47μF/0.3V M(WK) CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C281	CHIP CERAMIC CAP.(1005) F Z 0.1µF/16V	9HSHB1CZ30F104	AA
C284	CHIP CERAMIC CAP.(1005) B K 6800pF/25V	9HSHB1EK30B682	AA
C288	CHIP CERAMIC CAP.(1005) B K 0.047μF/16V	9HSHB1CK30B473	AA
C289	CHIP CERAMIC CAP.(1005) B K 0.047μF/16V	9HSHB1CK30B473	AA
C301	CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C302	CHIP CERAMIC CAP.(1005) B K 820pF/50V	9HSHB1JK30B821	AA
C303	CHIP CERAMIC CAP.(1005) CH J 68pF/50V	9HSHB1JJ3CH680	AA
C305	CHIP CERAMIC CAP.(1005) B K 6800pF/25V	9HSHB1EK30B682	AA
C308	CHIP CERAMIC CAP.(1005) B K 0.039μF/16V	9HSHB1CK30B393	AA
C310	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C311 C313	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V CHIP CERAMIC CAP.(1005) CH J 220pF/50V	9HSHB1CZ30F104 9HSHB1JJ3CH221	AA AA
C314	CHIP CERAMIC CAP.(1005) B K 3300pF/50V	9HSHB1JK30B332	AA
C315	CHIP CERAMIC CAP.(1005) F Z 0.1µF/16V	9HSHB1CZ30F104	AA
C316	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C317	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C318	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C324	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C325	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C326	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C327	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C328	CHIP CERAMIC CAP (1005) CH J 150pF/50V	9HSHB1JJ3CH151	AA
C329 C402	CHIP CERAMIC CAP.(1005) CH J 150pF/50V CHIP CERAMIC CAP.(1005) F Z 0.1µF/16V	9HSHB1JJ3CH151 9HSHB1CZ30F104	AA AA
C402	CHIP CERAMIC CAP.(1005) F Z 0.1µF/16V CHIP CERAMIC CAP.(1005) F Z 0.1µF/16V	9HSHB1CZ30F104 9HSHB1CZ30F104	AA
C405	CHIP CERAMIC CAP.(1005) F Z 0.1µF/16V CHIP CERAMIC CAP.(1005) F Z 0.1µF/16V	9HSHB1CZ30F104 9HSHB1CZ30F104	AA
C410	CHIP CERAMIC CAP.(1003) Γ Z 0.1μΓ/16V	9HSHB1CZ30F104	AA
C411	CHIP CERAMIC CAP.(1005) F Z 0.1µF/16V	9HSHB1CZ30F104	AA
C416	CHIP CERAMIC CAP.(1005) F Z 0.1µF/16V	9HSHB1CZ30F104	AA
C417	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C418	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C421	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C422	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C423	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C424	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C425	CHIP CERAMIC CAP (1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C426	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C427 C428	CHIP CERAMIC CAP.(1005) CH J 47pF/50V CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470 9HSHB1JJ3CH470	AA AA
C428 C471	CHIP CERAMIC CAP.(1005) CH J 47ρF/50V CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1JJ3CH470 9HSHB1CZ30F104	AA AA
C471	CHIP CERAMIC CAP. (1005) F Z 0.1μF/16V CHIP CERAMIC CAP. F Z 1μF/10V	9HSHD1AZ30F104 9HSHD1AZ30F105	AB
	J σεισιώπο στα τι 2 τμι/10ν		
C501	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA

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Ref. No.	Description	Part No.	Code
C503	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C504	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C505	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C506	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C507	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C508	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C509	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C510	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C511	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C512 C514	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104 9HSHB1CZ30F104	AA AA
C561	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C601	CHIP CERAMIC CAP.(1005) Γ Z 0.1μΓ/16V CHIP CERAMIC CAP.(1005) F Z 0.1μΓ/16V	9HSHB1CZ30F104	AA
C602	CHIP ELECTROLYTIC CAP. 330µF/6.3V M (UR)	9HSA0K331NC183	AC
C605	CHIP ELECTROLYTIC CAP. 47µF/6.3V M(WR)	9HSA0K470NC180	AC
C606	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C608	CHIP CERAMIC CAP.(1005) CH D 10pF/50V	9HSHB1JD3CH100	AA
C609	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C610	CHIP CERAMIC CAP.(1005) B K 0.01μF/25V	9HSHB1EK30B103	AA
C611	CHIP CERAMIC CAP.(1005) B K 0.01μF/25V	9HSHB1EK30B103	AA
C616	CHIP CERAMIC CAP.(1005) B K 0.01μF/25V	9HSHB1EK30B103	AA
C617	CHIP CERAMIC CAP.(1005) B K 0.01μF/25V	9HSHB1EK30B103	AA
C618	CHIP CERAMIC CAP.(1005) CH D 10pF/50V	9HSHB1JD3CH100	AA
C619	CHIP CERAMIC CAP.(1005) CH J 22pF/50V	9HSHB1JJ3CH220	AA
C620	CHIP CERAMIC CAP.(1005) CH J 22pF/50V	9HSHB1JJ3CH220	AA
C621	CHIP CERAMIC CAP.(1005) CH J 22pF/50V	9HSHB1JJ3CH220	AA
C622	CHIP CERAMIC CAP.(1005) CH J 22pF/50V	9HSHB1JJ3CH220	AA
C624	CHIP CERAMIC CAP.(1005) B K 1000pF/50V	9HSHB1JK30B102	AA
C658	CHIP ELECTROLYTIC CAP. 100μF/6.3V M(WR)	9HSA0K101NC180	AC
C901 C902	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104 9HSHB1CZ30F104	AA AA
C904	CHIP CERAMIC CAP.(1005) Γ Z 0.1μΓ/16V CHIP CERAMIC CAP.(1005) F Z 0.1μΓ/16V	9HSHB1CZ30F104	AA
C905	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C910	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C913	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C914	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C915	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C916	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C917	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C918	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C919	CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
CONNECTORS			
CN201	FFC CONNECTOR 20P 9611S-20Y916	9HSC96D20ER014	AD
CN301	FFC/FPC CONNECTOR 6P 04 6232 106 102 800	9HSC62D06TM002	AD
CN401	FFC/FPC CONNECTOR 27P 04 6232 127 102 800	9HSC62D27TM002	AF
CN601	FFC CONNECTOR 19P 9611S-19Y914	9HSC96D19ER013	AE
IC101	DVD 1CHIP LSI MN35201	9HSSZBA0RMS024	BE
IC101	16M MIRROR FLASH MOMORY MBM29LV160BM90TN	9HSSZBA0RFJ034	AU
IC201	1CIRCUIT ANALOG SWITCH NC7SB3157P6X	9HSSZBA0TF3063	AE
IC202	OPAMP LM324PWR	9HSSZBA0TTY140	AD
IC301	ACTUATER DRIVER SA5694	9HSSZBA0T0S002	AM
IC461	IC:RESET IC-PST3229NR	9HSSZBA0TMM093	AD
IC462	SYSTEM RESET IC BMR-110529	9HSSZBA0TKK002	AD
IC503	IC SDRAM K4S641632H-UC75	9HSSZBA0RSM050	AZ
IC601	IC(AUDIO D/A) PCM1755DBQR	9HSSZBA0TTY133	АН
COILS			
L104	CHIP BEAD MMZ1608Y121CT	9HSL06001TE004	AB
L106	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAJR5Z0000	AA
L107		9HSRXAJR5Z0000	AA
1.400	CHIP RES.(1608) 1/10W 0 Ω	01101 00001 1711007	A C
L108	CHIP INDUCTOR LB2016T2R2M	9HSLC2R2MTU007	AC AC
L201	CHIP INDUCTOR LB2016T2R2M CHIP INDUCTOR LB2012T470M	9HSLC470MTU038	AC
L201 L250	CHIP INDUCTOR LB2016T2R2M CHIP INDUCTOR LB2012T470M CHIP RES.(1608) 1/10W 0 Ω	9HSLC470MTU038 9HSRXAJR5Z0000	AC AA
L201 L250 L401	CHIP INDUCTOR LB2016T2R2M CHIP INDUCTOR LB2012T470M CHIP RES.(1608) 1/10W 0 Ω CHIP BEAD MMZ1608D121CT	9HSLC470MTU038 9HSRXAJR5Z0000 9HSL06001TE007	AC AA AB
L201 L250 L401 L402	CHIP INDUCTOR LB2016T2R2M CHIP INDUCTOR LB2012T470M CHIP RES.(1608) 1/10W 0 Ω CHIP BEAD MMZ1608D121CT CHIP BEAD MMZ1608D121CT	9HSLC470MTU038 9HSRXAJR5Z0000 9HSL06001TE007 9HSL06001TE007	AC AA AB AB
L201 L250 L401 L402 L403	CHIP INDUCTOR LB2016T2R2M CHIP INDUCTOR LB2012T470M CHIP RES.(1608) 1/10W 0 Ω CHIP BEAD MMZ1608D121CT CHIP BEAD MMZ1608D121CT CHIP BEAD MMZ1608D121CT	9HSLC470MTU038 9HSRXAJR5Z0000 9HSL06001TE007 9HSL06001TE007 9HSL06001TE007	AC AA AB AB AB
L201 L250 L401 L402	CHIP INDUCTOR LB2016T2R2M CHIP INDUCTOR LB2012T470M CHIP RES.(1608) 1/10W 0 Ω CHIP BEAD MMZ1608D121CT CHIP BEAD MMZ1608D121CT	9HSLC470MTU038 9HSRXAJR5Z0000 9HSL06001TE007 9HSL06001TE007	AC AA AB AB

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Ref. No.	Description	Part No.	Code
L612	CHIP INDUCTOR BK1608HM102	9HSLC102NTU018	AA
L613	CHIP INDUCTOR BK1608HM102	9HSLC102NTU018	AA
L614	CHIP INDUCTOR BK1608HM102	9HSLC102NTU018	AA
L615	CHIP BEAD MMZ1608Y121CT	9HSL06001TE004	AB
L616	CHIP BEAD MMZ1608Y121CT	9HSL06001TE004	AB
L617	CHIP INDUCTOR BK1608HM102	9HSLC102NTU018	AA
L618 TRANSISTORS	CHIP INDUCTOR BK1608LM152	9HSLC152NTU020	AA
Q251	CHIP TRANSISTOR KTC3875S-GR-RTK/P	9HSQ14KTC3875S	AB
Q252	CHIP TRANSISTOR KTC36733-GR-KTV/P	9HSQ1YKTA1504S	AB
Q253	CHIP TRANSISTOR KTC3875S-GR-RTK/P	9HSQ14KTC3875S	AB
Q254	CHIP TRANSISTOR KTA1504S-Y-RTK/P	9HSQ1YKTA1504S	AB
RESISTORS			
R101	CHIP RES.(1005) 1/16W J 82 Ω	9HSRXGJR4Z0820	AA
R102	CHIP BEAD MMZ1608D121CT	9HSL06001TE007	AB
R106	CHIP RES.(1005) 1/16W J 300 Ω	9HSRXGJR4Z0301	AA
R107	CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R108	CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R109 R110	CHIP RES.(1005) 1/16W J 220 Ω CHIP INDUCTOR BK1608LL121	9HSRXGJR4Z0221 9HSLC121NTU019	AA AA
R112	CHIP INDUCTOR BK 1008LL121 CHIP RES.(1005) 1/16W F 30k Ω	9HSRXGFR4Z0303	AA
R113	CHIP RES.(1005) 1/16W F 30k Ω	9HSRXGFR4Z0303	AA
R114	CHIP RES.(1005) 1/16W F 20k Ω	9HSRXGFR4Z0203	AA
R116	CHIP RES.(1005) 1/16W J 100 Ω	9HSRXGJR4Z0101	AA
R120	CHIP RES.(1005) 1/16W J 6.8 Ω	9HSRXGJR4Z06R8	AA
R121	CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R122	CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R124	CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R128	CHIP RES.(1005) 1/16W F 1.5k Ω	9HSRXGFR4Z0152	AA
R131 R133	CHIP RES.(1005) 1/16W J 10k Ω CHIP RES.(1005) 1/16W J 10k Ω	9HSRXGJR4Z0103 9HSRXGJR4Z0103	AA AA
R191	CHIP RES.(1005) 1/16W J 10K Ω CHIP RES.(1005) 1/16W J 680 Ω	9HSRXGJR4Z0103	AA
R192	CHIP RES.(1005) 1/16W J 1M Ω	9HSRXGJR4Z0105	AA
R203	CHIP RES.(1005) 1/16W J 3.3k Ω	9HSRXGJR4Z0332	AA
R206	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R208	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R213	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R214	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R217	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R218 R219	CHIP RES. (1005) 1/16W J 0 Ω CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R219	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000 9HSRXGJR4Z0000	AA AA
R225	CHIP RES. (1005) 1/10W J U Ω	9HSRXGJR4Z0102	AA
R226	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R227	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R228	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R231	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R232	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R233	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R234	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R241 R242	CHIP RES.(1005) 1/16W J 1k Ω CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102 9HSRXGJR4Z0102	AA AA
R242	CHIP RES. (1005) 1/16W J 1 K Ω	9HSRXGJR4Z0102 9HSRXGJR4Z0000	AA
R251	CHIP RES.(3216) 1/4W J 3.3 Ω	9HSRX4JR7Z03R3	AA
R252	CHIP RES.(1005) 1/16W J 2.2 Ω	9HSRXGJR4Z02R2	AA
R255	CHIP RES.(1005) 1/16W J 470 Ω	9HSRXGJR4Z0471	AA
R258	CHIP RES.(1005) 1/16W J 180 Ω	9HSRXGJR4Z0181	AA
R261	CHIP RES.(3216) 1/4W J 5.6 Ω	9HSRX4JR7Z05R6	AA
R262	CHIP RES.(1005) 1/16W J 2.2 Ω	9HSRXGJR4Z02R2	AA
R265	CHIP RES.(1005) 1/16W J 470 Ω	9HSRXGJR4Z0471	AA
R268 R270	CHIP RES.(1005) 1/16W J 180 Ω CHIP RES. (1005) 1/16W J 8.2k Ω	9HSRXGJR4Z0181	AA AA
R270	CHIP RES.(1005) 1/16W J 8.2k Ω CHIP RES.(1005) 1/16W J 18k Ω	9HSRXGJR4Z0822 9HSRXGJR4Z0183	AA
R271	CHIP RES.(1005) 1/16W J 16K Ω	9HSRXGJR4Z0472	AA
R275	CHIP RES.(1005) 1/16W J 6.8k Ω	9HSRXGJR4Z0682	AA
R276	CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R277	CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R278	CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R279	CHIP RES.(1005) 1/16W J 47k Ω		

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Ref. No.	Description	Part No.	Code
R280	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R281	CHIP RES.(1005) 1/16W F 10k Ω	9HSRXGFR4Z0103	AA
R282	CHIP RES.(1005) 1/16W F 10k Ω	9HSRXGFR4Z0103	AA
R283	CHIP RES.(1005) 1/16W F 10k Ω	9HSRXGFR4Z0103	AA
R284	CHIP RES.(1005) 1/16W F 10k Ω	9HSRXGFR4Z0103	AA
R285	CHIP RES.(1005) 1/16W J 22k Ω	9HSRXGJR4Z0223	AA
R286	CHIP RES.(1005) 1/16W J 2.2k Ω	9HSRXGJR4Z0222	AA
R289	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R299	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R301	CHIP RES.(1005) 1/16W J 1.5k Ω	9HSRXGJR4Z0152	AA
R302	CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R303	CHIP RES.(1005) 1/16W J 22k Ω	9HSRXGJR4Z0223	AA
R304	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R305	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R306	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R307	CHIP RES.(1005) 1/16W J 100 Ω	9HSRXGJR4Z0101	AA
R308	CHIP RES.(1005) 1/16W J 68k Ω	9HSRXGJR4Z0683	AA
R313	CHIP RES.(1005) 1/16W J 10k Ω	9HSRXGJR4Z0103	AA
R315	CHIP RES. (1005) 1/16W J 91k Ω	9HSRXGJR4Z0913	AA
R316	CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R317	CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R318	CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R319	CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R320	CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R321	CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R322	CHIP RES.(1005) 1/16W J 10k Ω	9HSRXGJR4Z0103	AA
R325	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R333	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R334	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R402	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R403	CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R404	CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R405	CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R406	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R407	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R408	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R409	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R410	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R411	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R412	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R413	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R415	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R417	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R421	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
R422	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
R423	CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
R471	CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R509	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R510	CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R562	CHIP RES.(1005) 1/16W J 10k Ω	9HSRXGJR4Z0103	AA
R565	CHIP RES.(1005) 1/16W J 47 Ω	9HSRXGJR4Z0470	AA
R567	CHIP RES.(1005) 1/16W J 47 Ω	9HSRXGJR4Z0470	AA
R601	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R607	CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R618	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R619	CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
MISCELLANEC	ous		
L0-9	SCREW, P-TIGHT M3X6 BIND HEAD+	9HSGBMP3060	AA
X101	X'TAL SMD-49 27.000MHz	9HSXC276CDS002	AG

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MAIN CBA + POWER SW CBA + DVD OPEN/CLOSE CBA + SENSOR CBA

Ref. No.	Description	Part No.	Code
	MAIN CBA + POWER SW CBA + DVD OPEN/CLOSE CBA + SENSOR CBA	9HS1VSA10334	BW
	Consists of the following		
	MAIN CBA	9HS1VSA10334A	
	POWER SW CBA	9HS1VSA10334B	
	DVD OPEN/CLOSE CBA	9HS1VSA10334C	
	SENSOR CBA	9HS1VSA10047	AK

MAIN CBA

Ref. No.	Description	Part No.	Code
	MAIN CBA	9HS1VSA10334A	
	Consists of the following		
CAPACITORS			
C056	ELECTROLYTIC CAP. 47μF/25V M	9HSE1EMASDL470	AC
C057	ELECTROLYTIC CAP. 10μF/16V M	9HSE1CMASDL100	AB
C058	ELECTRIC DOUBLE LAYER CAP0.022F/5.5V Z	9HSA0J223NE003	AK
C059	ELECTROLYTIC CAP. 100μF/6.3V M	9HSE0KMASDL101	AB
C060	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	9HSHD1JK30B473	AA
C062	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C063	ELECTROLYTIC CAP. 47μF/16V M	9HSE1CMASDL470	AB
C068	CHIP CERAMIC CAP.(1608) CH J 470pF/50V	9HSHD1JJ3CH471	AB
C104	ELECTROLYTIC CAP. 100μF/16V M	9HSE1CMASDL101	AC
C107	ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C109	CHIP CERAMIC CAP.(1608) CH J 470pF/50V	9HSHD1JJ3CH471	AB
C112	CHIP CERAMIC CAP.(1608) CH J 470pF/50V	9HSHD1JJ3CH471	AB
C113	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C114	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C116	CHIP CERAMIC CAP. B K 2200pF/50V	9HSHD1JK30B222	AA
C117	ELECTROLYTIC CAP. 1μF/50V M	9HSE1JMASDL1R0	AB
C118	CHIP CERAMIC CAP. B K 2200pF/50V	9HSHD1JK30B222	AA
C121	ELECTROLYTIC CAP. 1µF/50V M H7	9HSE1JMAVSL1R0	AB
C122	ELECTROLYTIC CAP. 1μF/50V M H7	9HSE1JMAVSL1R0	AB
C123	ELECTROLYTIC CAP. 1μF/50V M H7	9HSE1JMAVSL1R0	AB
C124	ELECTROLYTIC CAP. 470µF/6.3V M	9HSE0KMASDL471	AB
C125	ELECTROLYTIC CAP. 470µF/6.3V M	9HSE0KMASDL471	AB
C126	ELECTROLYTIC CAP. 470µF/6.3V M	9HSE0KMASDL471	AB
C127	ELECTROLYTIC CAP. 10µF/16V M	9HSE1CMASDL100	AB
C128	ELECTROLYTIC CAP. 22µF/6.3V M H7	9HSE0KMAVSL220	AB
C129	ELECTROLYTIC CAP. 100μF/16V M H7	9HSE1CMAVSL101	AB
C130	ELECTROLYTIC CAP. 4.7μF/50V M H7	9HSE1JMAVSL4R7	AB
C131	ELECTROLYTIC CAP. 4.7μF/50V M H7	9HSE1JMAVSL4R7	AB
C132	ELECTROLYTIC CAP. 4.7μF/50V M H7	9HSE1JMAVSL4R7	AB
C133	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C134	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMAVSL100	AB
C135	CHIP CERAMIC CAP.(1608) B K 0.01µF/50V	9HSHD1JK30B103	AA
C136	ELECTROLYTIC CAP. 100µF/6.3V H7	9HSE0KMAVSL101	AB
C251	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMAVSL100	AB
C252	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C253	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C254	ELECTROLYTIC CAP. 1μF/50V M H7	9HSE1JMAVSL1R0	AB
C301	CHIP CERAMIC CAP. (1608) B K 0.022μF/50V	9HSHD1JK30B223	AB
C302	ELECTROLYTIC CAP. 1µF/50V M H7	9HSE1JMAVSL1R0	AB
C302	CHIP CERAMIC CAP. (1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C305	ELECTROLYTIC CAP. (1006) 1 2 0.1µ1/30V	9HSE1JMAVSL1R0	AB
C306	CHIP CERAMIC CAP. (1608) B K 0.047μF/50V	9HSHD1JK30B473	AA
C307	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V	9HSHD1JK30B223	AB
C308	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C309	CHIP CERAMIC CAP. (1606) F 2 0. 1μF/50V CHIP CERAMIC CAP. CH J 68pF/50V	9HSHD1JJ3CH680	AA
C310	CHIP CERAMIC CAP. CH J 68pF/50V	9HSHD1JJ3CH680	AA
C311	CHIP CERAMIC CAP. CH J 660F/30V CHIP CERAMIC CAP. (1608) F Z 0.1µF/50V	9HSHD1JJ30F104	AA
C312	CHIP CERAMIC CAP.(1608) F 2 0.1μF/30V ELECTROLYTIC CAP. 10μF/16V M H7	9HSHD1JZ30F104 9HSE1CMAVSL100	AA
C312	ELECTROLYTIC CAP. 10µF/16V M H7 ELECTROLYTIC CAP. 1µF/50V M H7		
	·	9HSE1JMASSL1R0	AC
C314	CHIP CERAMIC CAP (1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C315	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	9HSHD1JK30B473	AA
C316	ELECTROLYTIC CAP. 1μF/50V M H7	9HSE1JMAVSL1R0	AB
C317	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C319	CHIP CERAMIC CAP. CH J 68pF/50V	9HSHD1JJ3CH680	AA

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Ref. No.	Description	Part No.	Code
C320	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C321	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C322	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C323	CHIP CERAMIC CAP. CH J 68pF/50V	9HSHD1JJ3CH680	AA
C324	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C325	CHIP CERAMIC CAP. B K 8200pF/50V	9HSHD1JK30B822	AA
C326 C328	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C328	ELECTROLYTIC CAP. 47µF/6.3V M H7 CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	9HSE0KMAVSL470 9HSHD1JZ30F104	AB AA
C329	ELECTROLYTIC CAP. 47μF/6.3V M H7	9HSE0KMAVSL470	AB
C333	CHIP CERAMIC CAP. (1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C334	ELECTROLYTIC CAP. 1µF/50V M H7	9HSE1JMAVSL1R0	AB
C335	ELECTROLYTIC CAP. 100μF/6.3V H7	9HSE0KMAVSL101	AB
C336	CHIP CERAMIC CAP. CH J 220pF/50V	9HSHD1JJ3CH221	AA
C337	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C339	CHIP CERAMIC CAP. CH J 120pF/50V	9HSHD1JJ3CH121	AA
C340	ELECTROLYTIC CAP. 1μF/50V M H7	9HSE1JMAVSL1R0	AB
C341	CHIP CERAMIC CAP. CH D 10pF/50V	9HSHD1JD3CH100	AA
C342	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C343	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMAVSL100	AB
C344 C345	ELECTROLYTIC CAP. 4.7μF/25V M NP H7 ELECTROLYTIC CAP. 0.47μF/50V M H7	9HSP1EMAVSB4R7	AB AC
C345	CHIP CERAMIC CAP. (1608) F Z 0.1µF/50V	9HSE1JMAVSLR47 9HSHD1JZ30F104	AA
C348	CERAMIC CAP.(1606) F 2 0.1μF/50V	9HSCA1JZTFZ104	AB
C349	ELECTROLYTIC CAP. 0.47µF/50V M H7	9HSE1JMAVSLR47	AC
C350	CERAMIC CAP.(AX) F Z 0.1μF/50V	9HSCA1JZTFZ104	AB
C402	FILM CAP.(P) 0.018μF/100V J	9HSMA2AJP00183	AB
C403	CERAMIC CAP. B K 470pF/100V	9HSCD2AKS0B471	AA
C404	ELECTROLYTIC CAP. 220μF/6.3V M H7	9HSE0KMASSL221	AB
C405	ELECTROLYTIC CAP. 47μF/6.3V M H7	9HSE0KMAVSL470	AB
C407	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C408	CHIP CERAMIC CAP. B K 1800pF/50V	9HSHD1JK30B182	AA
C409	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	9HSHD1JJ3CH330	AA
C410 C411	ELECTROLYTIC CAP. 10μF/16V M H7 CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSE1CMAVSL100 9HSHD1JK30B103	AB AA
C411	ELECTROLYTIC CAP. 33μF/6.3V M H7	9HSE0KMAVSL330	AB
C413	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C414	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V	9HSHD1JK30B223	AB
C415	ELECTROLYTIC CAP. 4.7μF/25V M H7	9HSE1EMAVSL4R7	AB
C416	CHIP CERAMIC CAP (1608) B K 4700pF/50V	9HSHD1JK30B472	AA
C417	ELECTROLYTIC CAP. 22μF/6.3V M H7	9HSE0KMAVSL220	AB
C418	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C419	CHIP CERAMIC CAP. CH J 220pF/50V	9HSHD1JJ3CH221	AA
C421	ELECTROLYTIC CAP. 47μF/6.3V M H7	9HSE0KMAVSL470	AB
C451	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C452 C453	ELECTROLYTIC CAP. 10μF/16V M H7 ELECTROLYTIC CAP. 22μF/10V M H7	9HSE1CMAVSL100 9HSE1AMAVSL220	AB AB
C453	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C455	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C456	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMAVSL100	AB
C457	ELECTROLYTIC CAP. 4.7μF/25V M H7	9HSE1EMAVSL4R7	AB
C458	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C461	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C462	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	9HSHD1JK30B472	AA
C463	ELECTROLYTIC CAP. 22μF/10V M H7	9HSE1AMAVSL220	AB
C464	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C465	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMAVSL100	AB
C466 C467	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	9HSHD1JZ30F104 9HSHD1JZ30F104	AA AA
C468	ELECTROLYTIC CAP. 220μF/6.3V M H7	9HSE0KMAVSL221	AB
C469	ELECTROLYTIC GAL: 220µF/10V M H7	9HSE1AMAVSL220	AB
C470	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	9HSHD1JK30B472	AA
C471	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C472	ELECTROLYTIC CAP. 4.7μF/25V M H7	9HSE1EMAVSL4R7	AB
C473	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMAVSL100	AB
C474	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C475	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C476	ELECTROLYTIC CAP. 22µF/6.3V M H7	9HSE0KMAVSL220	AB
C477	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA

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Ref. No.	Description	Part No.	Code
C478	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C479	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMAVSL100	AB
C480	ELECTROLYTIC CAP. 4.7μF/25V M H7	9HSE1EMAVSL4R7	AB
C481	ELECTROLYTIC CAP. 4.7μF/25V M H7	9HSE1EMAVSL4R7	AB
C482	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C483	ELECTROLYTIC CAP. 4.7μF/25V M H7	9HSE1EMAVSL4R7	AB
C484	ELECTROLYTIC CAP. 4.7μF/25V M H7	9HSE1EMAVSL4R7	AB
C485 C486	ELECTROLYTIC CAP. 10µF/16V M H7 CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	9HSE1CMAVSL100 9HSHD1JZ30F104	AB AA
C487	ELECTROLYTIC CAP. 47µF/16V M H7	9HSE1CMAVSL470	AC
C488	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C502	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V	9HSHD1JK30B223	AB
C505	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C506	ELECTROLYTIC CAP. 220μF/6.3V M H7	9HSE0KMAVSL221	AB
C507	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C508	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C509	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C510	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	9HSHD1JK30B472	AA
C511	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	9HSHD1JJ3CH101	AA
C512	CHIP CERAMIC CAP (1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C514 C515	CHIP CERAMIC CAP. CH J 330pF/50V CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V	9HSHD1JJ3CH331 9HSHD1JZ30F104	AA AA
C515	ELECTROLYTIC CAP. (1608) F 2 0.1μF/50V	9HSE0KMAVSL220	AB
C510	CERAMIC CAP.(AX) F Z 0.022μF/25V	9HSCA1EZTFZ223	AA
C518	ELECTROLYTIC CAP. 22μF/6.3V M H7	9HSE0KMAVSL220	AB
C519	CHIP CERAMIC CAP. CH J 560pF/50V	9HSHD1JJ3CH561	AA
C521	ELECTROLYTIC CAP. 22μF/6.3V M H7	9HSE0KMAVSL220	AB
C522	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C524	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C527	CERAMIC CAP.(AX) B K 100pF/50V	9HSCA1JKT0B101	AB
C531	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	9HSHD1JK30B472	AA
C533	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	9HSHD1JK30B473	AA
C534	ELECTROLYTIC CAP. 47µF/6.3V M H7	9HSE0KMAVSL470	AB
C535 C538	CHIP CERAMIC CAP.(1608) F Z 0.1µF/50V CHIP CERAMIC CAP. CH J 180pF/50V	9HSHD1JZ30F104 9HSHD1JJ3CH181	AA AA
C539	CHIP CERAMIC CAP. (1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C540	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	9HSHD1JK30B472	AA
C541	CHIP CERAMIC CAP. CH J 18pF/50V	9HSHD1JJ3CH180	AA
C542	CHIP CERAMIC CAP. CH J 18pF/50V	9HSHD1JJ3CH180	AA
C543	CHIP CERAMIC CAP (1608) CH J 22pF/50V	9HSHD1JJ3CH220	AB
C544	CHIP CERAMIC CAP.(1608) CH J 22pF/50V	9HSHD1JJ3CH220	AB
C545	CHIP CERAMIC CAP.(1608) CH J 22pF/50V	9HSHD1JJ3CH220	AB
C546	CHIP CERAMIC CAP.(1608) CH J 22pF/50V	9HSHD1JJ3CH220	AB
C547	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C548	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C549 C550	ELECTROLYTIC CAP. 1μF/50V M H7 ELECTROLYTIC CAP. 100μF/6.3V H7	9HSE1JMAVSL1R0 9HSE0KMAVSL101	AB AB
C553	ELECTROLYTIC CAP. 100μF/8.3V H7 ELECTROLYTIC CAP. 22μF/10V M H7	9HSE1AMAVSL220	AB
C555	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	9HSHD1EK30B104	AB
C612	CHIP CERAMIC CAP.(1608) B K 4700pF/50V	9HSHD1JK30B472	AA
C614	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C615	ELECTROLYTIC CAP. 100μF/6.3V H7	9HSE0KMAVSL101	AB
C616	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C631	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C632	ELECTROLYTIC CAP. 1μF/50V M H7 NP	9HSP1JMAVSB1R0	
C633	ELECTROLYTIC CAP. 1μF/50V M H7	9HSE1JMAVSL1R0	AB
C634	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C635	SEMICONDUCTOR CAP. SR K 0.018μF/25V	9HSDA1EKS0X183	A D
C636 C637	ELECTROLYTIC CAP. 4.7μF/25V M H7 ELECTROLYTIC CAP. 47μF/6.3V M H7	9HSE1EMAVSL4R7 9HSE0KMAVSL470	AB AB
C703	CHIP CERAMIC CAP. 47μF/6.3V M H7	9HSHD1JZ30F104	AB
C706	CHIP CERAMIC CAP.(1608) F 2 0.1μF/30V CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	9HSHD1JK30B473	AA
C709	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C711	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C712	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C714	CHIP CERAMIC CAP. B K 1500pF/50V	9HSHD1JK30B152	AB
C715	CHIP CERAMIC CAP. F Z 0.22μF/16V	9HSHD1CZ30F224	AA
C716	CHIP CERAMIC CAP. F Z 0.22μF/16V	9HSHD1CZ30F224	AA
C751	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA

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Ref. No.	Description	Part No.	Code
C752	ELECTROLYTIC CAP. 47μF/10V M H7	9HSE1AMAVSL470	AB
C753	ELECTROLYTIC CAP. 4.7μF/50V M	9HSE1JMASDL4R7	AB
C754	ELECTROLYTIC CAP. 4.7μF/50V M H7	9HSE1JMASSL4R7	AC
C755	CHIP CERAMIC CAP. B K 2200pF/50V	9HSHD1JK30B222	AA
C756	CHIP CERAMIC CAP. B K 2200pF/50V	9HSHD1JK30B222	AA
C757 C758	ELECTROLYTIC CAP. 47μF/6.3V M H7	9HSE0KMASSL470	AC AA
C783	CERAMIC CAP.(AX) Y M 0.01μF/16V CHIP CERAMIC CAP.(1608) CH J 470pF/50V	9HSCA1CMT0Y103 9HSHD1JJ3CH471	AB
C784	CHIP CERAMIC CAP.(1608) CH J 470pF/50V	9HSHD1JJ3CH471	AB
C1039	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C1040	ELECTROLYTIC CAP. 100μF/6.3V M	9HSE0KMASDL101	AB
C1042	ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C1056	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C1201	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMASSL100	AC
C1202	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMASSL100	AC
C1205 C1206	CHIP CERAMIC CAP. CH J 220pF/50V CHIP CERAMIC CAP. CH J 220pF/50V	9HSHD1JJ3CH221 9HSHD1JJ3CH221	AA AA
C1206	CHIP CERAMIC CAP. CH J 220pF/50V CHIP CERAMIC CAP. (1608) CH J 47pF/50V	9HSHD1JJ3CH470	AA
C1207	CHIP CERAMIC CAP.(1008) CH J 47pF/50V	9HSHD1JJ3CH470	AA
C1221	ELECTROLYTIC CAP. 10uF/16V M H7	9HSE1CMAVSL100	AB
C1222	ELECTROLYTIC CAP. 10μF/16V M	9HSE1CMASDL100	AB
C1223	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	9HSHD1JJ3CH102	AA
C1224	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C1245	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C1246	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C1247	ELECTROLYTIC CAP. 470µF/16V M	9HSE1CMASDL471	AB
C1249	ELECTROLYTIC CAP. 47µF/16V M	9HSE1CMASDL470	AB
C1353 C1354	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V CHIP CERAMIC CAP.(1608) CH J 100pF/50V	9HSHD1EK30B104 9HSHD1JJ3CH101	AB AA
C1354	CHIP CERAMIC CAP. (1006) CH 3 100pF/30V	9HSHD1333CH101	AA
C1359	CHIP CERAMIC CAP. CH D 9pF/50V	9HSHD1JD3CH9R0	AA
C1393	ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C1394	ELECTROLYTIC CAP. 47μF/6.3V M	9HSE0KMASDL470	AB
C1421	CHIP CERAMIC CAP (1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C1422	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	9HSHD1EK30B104	AB
C1441	CHIP CERAMIC CAP.(1608) B K 0.33μF/10V	9HSHD1AK30B334	AC
C1442	ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C1522 C1523	ELECTROLYTIC CAP. 10µF/16V M H7	9HSE1CMAVSL100	AB
C1523	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V ELECTROLYTIC CAP. 100μF/6.3V H7	9HSHD1JZ30F104 9HSE0KMAVSL101	AA AB
C1524	CHIP CERAMIC CAP. (1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C1536	ELECTROLYTIC CAP. 22μF/6.3V M H7	9HSE0KMAVSL220	AB
C2002	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C2004	ELECTROLYTIC CAP. 100μF/6.3V H7	9HSE0KMAVSL101	AB
C2012	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
CONNECTORS			
CN051	CONNECTOR BASE, 18P TUC-P18P-B1	9HS3TUA18TG001	AD
CN701	AFV PCB ASSEMBLY CPD0500/9701	9HSH9701AFV	AW
DIODES D051	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D052	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D054	ZENER DIODE DZ-10BSBT265	9HSDTB00DZ10BS	AB
D056	ZENER DIODE DZ-18BSBT265	9HSDTB00DZ18BS	AB
D057	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D101	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D102	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D103	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D104 D105	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS 9HSDTA00DZ11BS	AB AB
D105	ZENER DIODE DZ-11BSAT265 ZENER DIODE DZ-11BSAT265	9HSDTA00DZT1BS 9HSDTA00DZ11BS	AB
D106	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D108	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D109	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D110	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D115	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D118	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D119	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D121	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D301	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA

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Ref. No.	Description	Part No.	Code
D501	LED(RED) 204HD/E	9HSPQZ00204HDE	AB
D502	LED(GREEN) 204-10GD/S957	9HSPQZ10GDS957	AB
D503	LED(GREEN) 204-10GD/S957	9HSPQZ10GDS957	AB
D504	LED(RED) 204HD/E	9HSPQZ00204HDE	AB
D510	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D511	ZENER DIODE DZ-7.5BSAT265	9HSDTA0DZ7R5BS	AB
D512	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D555 D611	LED MIE-534A2 SWITCHING DIODE 1N4148M	9HSPZZM1E534A2 9HSDTZ01N4148M	AC AA
D611	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
D613	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
D701	ZENER DIODE DZ-33BSDT265	9HSDTD00DZ33BS	AB
D1031	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
D1052	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1053	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1054	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1057	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1301	ZENER DIODE DZ-5.6BSBT265	9HSDTB0DZ5R6BS	AB
ICS			
IC102	DRIVER FOR DVD MM1637XVBE	9HSSZBA0TMM102	AK
IC301	IC:Y/C/A LA71750EM-MPB-E	9HSSZBA0RSY020	AY
IC451 IC501	IC:HIFI LA72648M-MPB-E SYSCON IC M3776AMCA-AA9GP	9HSSZBA0RSY033	AS AV
IC501 IC502	IC:EEPROM CAT24WC02JI	9HSSZAA0RMB199 9HSSZBA0SBG001	AV AE
IC502	V.F.D. 7-BT-298NA	9HSVFD1C0FT045	AS
IC612	FL DRIVER IC PT6313-S-TP	9HSSZBA0TG2006	AK
IC631	IC:VPS/PDC SLICER LC74793JM-TRM	9HSSZBA0TSY018	AP
IC751	IC:SWITCH TC4053BF(N)	9HSSMBA0STS002	AF
IC1002	VOLTAGE REGULATOR PQ070XZ5MZP	9HSSZBA0TSH034	AG
IC1003	VOLTAGE REGULATOR BA3948FP-E2	9HSSZBA0TRM073	AG
IC1201	IC:OP AMP KIA4558P	9HSSZBA0SJY004	AE
IC1403	DRIVER FOR DVD MM1636XWRE	9HSSZBA0TMM108	AK
IC1404	IC:SWITCH TC4053BF(N)	9HSSMBA0STS002	AF
COILS			
L053	INDUCTOR(100μH K) LAP02TA101K	9HSLAXKATTU101	AB
L101	BEAD CORE B16 RH 3.5X10X1.3	9HSL03010XM001	AB
L121 L122	CHIP RES.(1608) 1/10W 0 Ω CHOKE COIL 47 μ H-K	9HSRXAZR5Z0000 9HSLBD00PKV007	AA AC
L122	INDUCTOR 5.6μH-K-26T	9HSLAXKATTU5R6	AB
L302	INDUCTOR (100µH K) LAP02TA101K	9HSLAXKATTU101	AB
L402	INDUCTOR 47µH-K-5FT	9HSLARKBSTU470	AB
L451	INDUCTOR 47µH-K-5FT	9HSLARKBSTU470	AB
L452	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
L501	INDUCTOR(100μH K) LAP02TA101K	9HSLAXKATTU101	AB
L502	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
L503	INDUCTOR 1.8μH-K-26T	9HSLAXKATTU1R8	AB
L701	INDUCTOR 15μH-K-26T	9HSLAXKATTU150	AC
L702	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
L704	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
L1251	INDUCTOR(0.47µH K) LAPO2TA404K	9HSLAXKATTUR47	AB
L1351 L1521	INDUCTOR(100µH K) LAP02TA101K CHOKE COIL 47µH-K	9HSLAXKATTU101 9HSLBD00PKV007	AB AC
L1521	CHORE COIL 47μ H-K CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AC
L2001	INDUCTOR(100µH K) LAP02TA101K	9HSLAXKATTU101	AB
TRANSISTORS		222.2.000101	
Q051	TRANSISTOR KTA1281(Y)	9HSQSY0KTA1281	AD
Q052	RES. BUILT-IN TRANSISTOR KRC103M	9HSQSZ0KRC103M	AC
Q053	RES. BUILT-IN TRANSISTOR KRA104M	9HSQSZ0KRA104M	AB
Q054	RES. BUILT-IN TRANSISTOR KRC103M	9HSQSZ0KRC103M	AC
Q055	TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199	AC
Q056	TRANSISTOR KTC3205(Y)	9HSQSY0KTC3205	AD
Q057	RES. BUILT-IN TRANSISTOR KRA103M	9HSQSZ0KRA103M	AC
Q058	TRANSISTOR KTA1266(GR)	9HSQS40KTA1266	AC
Q059	RES. BUILT-IN TRANSISTOR KRC103M	9HSQSZ0KRC103M	AC
Q104 Q107	TRANSISTOR KTC3100(V)	9HSQS40KTA1266	AC AC
Q107 Q108	TRANSISTOR KTC3199(Y) TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199 9HSQSY0KTC3199	AC AC
Q302	TRANSISTOR KTC3199(Y) TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199 9HSQSY0KTC3199	AC
Q401	CHIP TRANSISTOR FMG4A T148	9HSQ2Z000FMG4A	AC
	OF THE THE PROPERTY OF THE PRO	3110Q220001 WIG4A	Λ0

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Ref. No.	Description	Part No.	Code
Q403	TRANSISTOR KTC3203(Y)	9HSQSY0KTC3203	AC
Q404	TRANSISTOR KTA1266(GR)	9HSQS40KTA1266	AC
Q405	RES. BUILT-IN TRANSISTOR KRA103M	9HSQSZ0KRA103M	AC
Q406	CHIP TRANSISTOR KTC3875Y-RTK	9HSQ1Y0KTC3875	AG
Q451	CHIP TRANSISTOR KRC103S RTK	9HSQ1Z0KRC103S	AB
Q502	TRANSISTOR KTA1267(Y)	9HSQSY0KTA1267	AC
Q506	PHOTO TRANSISTOR PT204-6B-12	9HSPWZT2046B12	AC
Q507	TRANSISTOR KTC3199(Y) TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199	AC AC
Q508 Q509	TRANSISTOR KTC3199(1) TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199 9HSQSY0KTC3199	AC
Q509 Q511	TRANSISTOR KTC3199(1) TRANSISTOR KTA1267(Y)	9HSQSY0KTA1267	AC
Q513	RES. BUILT-IN TRANSISTOR KRC103M	9HSQSZ0KRC103M	AC
Q514	TRANSISTOR KTC3199(BL)	9HSQS50KTC3199	AC
Q515	TRANSISTOR KTC3199(BL)	9HSQS50KTC3199	AC
Q753	TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199	AC
Q754	TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199	AC
Q1052	TRANSISTOR KTC3203(Y)	9HSQSY0KTC3203	AC
Q1053	TRANSISTOR KTA1267(Y)	9HSQSY0KTA1267	AC
Q1054	TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199	AC
Q1055	TRANSISTOR KTC3203(Y)	9HSQSY0KTC3203	AC
Q1204	TRANSISTOR KTA1266(GR)	9HSQS40KTA1266	AC
Q1351	TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199	AC
Q1352	TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199	AC
Q1502	CHIP TRANSISTOR KRC103S RTK	9HSQ1Z0KRC103S	AB
Q1503	CHIP TRANSISTOR KTC3875Y-RTK	9HSQ1Y0KTC3875	AG
RESISTORS			
R051	CARBON RES. 1/6W J 47k Ω	9HSCX6JATZ0473	AA
R052	CARBON RES. 1/4W J 680 Ω	9HSCX4JATZ0681	AA
R053	CARBON RES. 1/4W J 680 Ω	9HSCX4JATZ0681	AA
R054	CHIP RES.(1608) 1/10W J 22k Ω	9HSRXAJR5Z0223	AA
R055	CARBON RES. 1/4W J 10k Ω	9HSCX4JATZ0103	AA
R056	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
R058	CARBON RES. 1/4W J 1.2k Ω CARBON RES. 1/4W J 1.2k Ω	9HSCX4JATZ0122	AA AA
R059 R060	CARBON RES. 1/4W J 1.2k Ω	9HSCX4JATZ0122 9HSCX4JATZ0122	AA
R060	CARBON RES. 1/4W J 1.2K Ω	9HSCX4JATZ0122 9HSCX4JATZ0822	AA
R062	CHIP RES.(1608) 1/10W J 180 Ω	9HSRXAJR5Z0181	AA
R064	CARBON RES. 1/4W J 8.2k Ω	9HSCX4JATZ0822	AA
R065	CHIP RES.(1608) 1/10W J 22k Ω	9HSRXAJR5Z0223	AA
R070	CARBON RES. 1/4W J 820 Ω	9HSCX4JATZ0821	AA
R072	CARBON RES. 1/6W J 1 Ω	9HSCX6JATZ01R0	AA
R112	CHIP RES.(1608) 1/10W J 220 Ω	9HSRXAJR5Z0221	AA
R113	CARBON RES. 1/4W J 680 Ω	9HSCX4JATZ0681	AA
R116	CARBON RES. 1/4W J 560 Ω	9HSCX4JATZ0561	AA
R119	CARBON RES. 1/4W J 75 Ω	9HSCX4JATZ0750	AA
R121	CARBON RES. 1/6W J 15k Ω	9HSCX6JATZ0153	AA
R122	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R124	CARBON RES. 1/6W J 4.7k Ω	9HSCX6JATZ0472	AA
R128	CHIP RES.(1608) 1/10W J 75 Ω	9HSRXAJR5Z0750	AA
R129	CARBON RES. 1/4W J 470 Ω	9HSCX4JATZ0471	AA
R130	CARBON RES. 1/6W J 4.7k Ω	9HSCX6JATZ0472	AA
R131	CARBON RES. 1/4W J 470 Ω	9HSCX4JATZ0471	AA
R132	CHIP RES. 1/10W F 160 Ω	9HSRXAFR5H1600	AA
R133	CHIP RES. 1/10W F 160 Ω	9HSRXAFR5H1600	AA
R134	CHIP RES. 1/10W F 160 Ω	9HSRXAFR5H1600	AA
R135	CHIP RES. (1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R136 R137	CARBON RES. 1/4W J 75 Ω CARBON RES. 1/4W J 75 Ω	9HSCX4JATZ0750 9HSCX4JATZ0750	AA AA
R137	CARBON RES. 1/4W J 75 Ω	9HSCX4JATZ0750 9HSCX4JATZ0750	AA
R140	CARBON RES. 1/4W 3 7 5 Ω CHIP RES.(1608) 1/10W J 22k Ω	9HSRXAJR5Z0223	AA
R141	CHIP RES.(1608) 1/10W J 22K Ω2	9HSRXAJR5Z0151	AA
R142	CHIP RES.(1608) 1/10W J 180 Ω	9HSRXAJR5Z0131	AA
R143	CHIP RES.(1608) 1/10W J 100 Ω	9HSRXAJR5Z0104	AA
R144	CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R145	CHIP RES.(1608) 1/10W J 4.7k Ω	9HSRXAJR5Z0472	AA
R146	CHIP RES.(1608) 1/10W J 47k Ω	9HSRXAJR5Z0473	AA
R147	CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
	CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R148	CI III 1\L3.\(1000\) 1/10\V 3 100\K \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \		

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Ref. No.	Description	Part No.	Code
R150	CHIP RES.(1608) 1/10W J 47k Ω	9HSRXAJR5Z0473	AA
R251	CHIP RES.(1608) 1/10W J 39k Ω	9HSRXAJR5Z0393	AA
R252	CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R301	CHIP RES.(1608) 1/10W J 1.2k Ω	9HSRXAJR5Z0122	AA
R303	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R304	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R305	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R306	CHIP RES.(1608) 1/10W J 5.6M Ω	9HSRXAJR5Z0565	AA
R307	CARBON RES. 1/6W J 33 Ω	9HSCX6JATZ0330	AA
R309	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R310	CARBON RES. 1/6W J 33 Ω	9HSCX6JATZ0330	AA
R311 R314	CHIP RES.(1608) 1/10W J 75 Ω CHIP RES.(1608) 1/10W J 3.9k Ω	9HSRXAJR5Z0750 9HSRXAJR5Z0392	AA AA
R316	CHIP RES.(1608) 1/10W J 1.8k Ω	9HSRXAJR5Z039Z 9HSRXAJR5Z0182	AA
R317	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R319	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R320	CHIP RES.(1608) 1/10W J 47k Ω	9HSRXAJR5Z0473	AA
R321	CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R322	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R323	CHIP RES.(1608) 1/10W J 1.2k Ω	9HSRXAJR5Z0122	AA
R324	CHIP RES.(1608) 1/10W J 1.2k Ω	9HSRXAJR5Z0122	AA
R325	CHIP RES.(1608) 1/10W J 1.2k Ω	9HSRXAJR5Z0122	AA
R326	CHIP RES.(1608) 1/10W J 4.7k Ω	9HSRXAJR5Z0472	AA
R327	CHIP RES.(1608) 1/10W J 6.8k Ω	9HSRXAJR5Z0682	AA
R328	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R330	CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R331	CHIP RES.(1608) 1/10W J 18k Ω	9HSRXAJR5Z0183	AA
R332	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R333	CHIP RES.(1608) 1/10W J 18k Ω	9HSRXAJR5Z0183	AA
R334	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R335	CHIP RES.(1608) 1/10W J 100 Ω	9HSRXAJR5Z0101	AA
R336	CHIP RES.(1608) 1/10W J 4.7k Ω	9HSRXAJR5Z0472	AA
R337 R339	CHIP RES.(1608) 1/10W J 6.8k Ω CHIP RES.(1608) 1/10W 0 Ω	9HSRXAJR5Z0682 9HSRXAZR5Z0000	AA AA
R341	CHIP RES.(1608) 1/10W 0 Ω2 CHIP RES.(1608) 1/10W J 33 Ω	9HSRXAJR5Z0000 9HSRXAJR5Z0330	AA
R342	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R401	CARBON RES. 1/4W J 820 Ω	9HSCX4JATZ0821	AA
R402	CARBON RES. 1/6W J 100 Ω	9HSCX6JATZ0101	AA
R404	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R405	CHIP RES.(1608) 1/10W J 47k Ω	9HSRXAJR5Z0473	AA
R406	CHIP RES.(1608) 1/10W J 22k Ω	9HSRXAJR5Z0223	AA
R407	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R408	CHIP RES.(1608) 1/10W J 12k Ω	9HSRXAJR5Z0123	AA
R409	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R410	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R411	CHIP RES.(1608) 1/10W J 27k Ω	9HSRXAJR5Z0273	AA
R412	CHIP RES.(1608) 1/10W J 120 Ω	9HSRXAJR5Z0121	AA
R413	CHIP RES.(1608) 1/10W J 330k Ω	9HSRXAJR5Z0334	AA
R414	CHIP RES.(1608) 1/10W J 12k Ω	9HSRXAJR5Z0123	AA
R415	CHIP RES.(1608) 1/10W J 1.8k Ω	9HSRXAJR5Z0182	AA
R416 R417	CHIP RES.(1608) 1/10W J 560 Ω CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0561 9HSRXAJR5Z0222	AA AA
R417	CHIP RES.(1608) 1/10W J 22.k Ω CHIP RES.(1608) 1/10W J 12k Ω	9HSRXAJR5Z0ZZZ 9HSRXAJR5Z0123	AA
R419	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R420	CHIP RES.(1608) 1/10W J 4.7k Ω	9HSRXAJR5Z0472	AA
R421	CHIP RES.(1608) 1/10W J 4.7k Ω	9HSRXAJR5Z0472	AA
R430	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R431	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R451	CHIP RES.(1608) 1/10W J 8.2k Ω	9HSRXAJR5Z0822	AA
R452	CHIP RES.(1608) 1/10W J 39k Ω	9HSRXAJR5Z0393	AA
R453	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R454	CHIP RES.(1608) 1/10W J 39k Ω	9HSRXAJR5Z0393	AA
R455	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R456	CHIP RES.(1608) 1/10W J 39k Ω	9HSRXAJR5Z0393	AA
R457	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R458	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R459	CHIP RES.(1608) 1/10W J 39k Ω	9HSRXAJR5Z0393	AA
R460	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R461	CHIP RES.(1608) 1/10W J 47k Ω	9HSRXAJR5Z0473	AA

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Ref. No.	Description	Part No.	Code
R462	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R463	CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R464	CHIP RES.(1608) 1/10W J 3.3k Ω	9HSRXAJR5Z0332	AA
R465	CHIP RES.(1608) 1/10W J 8.2k Ω	9HSRXAJR5Z0822	AA
R466	CHIP RES.(1608) 1/10W J 8.2k Ω	9HSRXAJR5Z0822	AA
R467	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R468	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R469	CHIP RES.(1608) 1/10W J 39k Ω	9HSRXAJR5Z0393	AA
R470 R471	CHIP RES.(1608) 1/10W J 39k Ω CHIP RES.(1608) 1/10W J 39k Ω	9HSRXAJR5Z0393 9HSRXAJR5Z0393	AA AA
R471	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR520393 9HSRXAJR5Z0562	AA
R473	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R474	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R475	CHIP RES.(1608) 1/10W J 47k Ω	9HSRXAJR5Z0473	AA
R476	CHIP RES.(1608) 1/10W J 150 Ω	9HSRXAJR5Z0151	AA
R477	CHIP RES.(1608) 1/10W J 150 Ω	9HSRXAJR5Z0151	AA
R478	CHIP RES.(1608) 1/10W J 39k Ω	9HSRXAJR5Z0393	AA
R479	CHIP RES.(1608) 1/10W J 33 Ω	9HSRXAJR5Z0330	AA
R480	CHIP RES.(1608) 1/10W J 100 Ω	9HSRXAJR5Z0101	AA
R481	CHIP RES.(1608) 1/10W J 33 Ω	9HSRXAJR5Z0330	AA
R482	CHIP RES.(1608) 1/10W J 100 Ω	9HSRXAJR5Z0101	AA
R483	CHIP RES.(1608) 1/10W J 22k Ω	9HSRXAJR5Z0223	AA
R484	CHIP RES.(1608) 1/10W J 6.8k Ω	9HSRXAJR5Z0682	AA
R501	CHIP RES.(1608) 1/10W J 1.8k Ω	9HSRXAJR5Z0182	AA
R502	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R503	CHIP RES.(1608) 1/10W J 3.9k Ω	9HSRXAJR5Z0392	AA
R504	CHIP RES.(1608) 1/10W J 3.9k Ω	9HSRXAJR5Z0392	AA
R507	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R509	CHIP RES.(1608) 1/10W J 180 Ω	9HSRXAJR5Z0181	AA
R511	CARBON RES. 1/6W G 3.6k Ω	9HSCX6GATZ0362	AA
R512	CHIP RES.(1608) 1/10W J 68k Ω	9HSRXAJR5Z0683	AA
R513	CHIP RES.(1608) 1/10W J 33k Ω	9HSRXAJR5Z0333	AA
R514	CARBON RES. 1/6W G 10k Ω	9HSCX6GATZ0103	AA
R516	CARBON RES. 1/6W G 470 Ω	9HSCX6GATZ0471	AA
R517 R519	CARBON RES. 1/4W J 270 Ω CARBON RES. 1/6W G 22k Ω	9HSCX4JATZ0271 9HSCX6GATZ0223	AA AA
R520	CARBON RES. 1/6W J 330 Ω	9HSCX6JATZ0223	AA
R521	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R522	CHIP RES.(1608) 1/10W J 3.9k Ω	9HSRXAJR5Z0392	AA
R523	CARBON RES. 1/6W G 1.5k Ω	9HSCX6GATZ0152	AA
R524	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R525	CARBON RES. 1/6W J 390k Ω	9HSCX6JATZ0394	AA
R526	CHIP RES.(1608) 1/10W J 390k Ω	9HSRXAJR5Z0394	AA
R527	CARBON RES. 1/6W J 330 Ω	9HSCX6JATZ0331	AA
R528	CARBON RES. 1/6W G 4.7k Ω	9HSCX6GATZ0472	AA
R529	CHIP RES.(1608) 1/10W J 3.9k Ω	9HSRXAJR5Z0392	AA
R530	CARBON RES. 1/4W J 270 Ω	9HSCX4JATZ0271	AA
R531	CHIP RES.(1608) 1/10W J 3.9k Ω	9HSRXAJR5Z0392	AA
R532	CARBON RES. 1/4W J 270 Ω	9HSCX4JATZ0271	AA
R533	CHIP RES.(1608) 1/10W J 3.9k Ω	9HSRXAJR5Z0392	AA
R534	CARBON RES. 1/6W J 330 Ω	9HSCX6JATZ0331	AA
R535	CHIP RES.(1608) 1/10W J 3.9k Ω	9HSRXAJR5Z0392	AA
R536	CHIP RES.(1608) 1/10W J 1.8k Ω	9HSRXAJR5Z0182	AA
R537	CHIP RES.(1608) 1/10W J 680 Ω	9HSRXAJR5Z0681	AA
R538	CHIP RES.(1608) 1/10W J 1.5k Ω	9HSRXAJR5Z0152	AA
R539	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R540	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R541	CHIP RES.(1608) 1/10W J 18k Ω	9HSRXAJR5Z0183	AA
R542 R543	CAPRON DES 1/4W 14k Ω	9HSRXAJR5Z0102	AA
R543	CARBON RES. 1/4W J 1k Ω CHIP RES.(1608) 1/10W J 10k Ω	9HSCX4JATZ0102	AA AA
R544 R545	CHIP RES.(1608) 1/10W J 10k Ω CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103 9HSRXAJR5Z0103	AA
R545	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103 9HSRXAJR5Z0102	AA
R548	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0102 9HSRXAJR5Z0103	AA
R550	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103 9HSRXAJR5Z0103	AA
R552	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103 9HSRXAJR5Z0103	AA
	J. II. 1.20.(1000) 1/1044 0 101.22	311311/1/320103	
	CHIP RES (1608) 1/10W .L10k O	9HSRXA.IR570103	AA
R554 R555	CHIP RES.(1608) 1/10W J 10k Ω CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0103 9HSRXAJR5Z0102	AA AA

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Ref. No.	Description	Part No.	Code
R563	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R567	CHIP RES.(1608) 1/10W J 39k Ω	9HSRXAJR5Z0393	AA
R568	CHIP RES.(1608) 1/10W J 220k Ω	9HSRXAJR5Z0224	AA
R569	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R570	CARBON RES. 1/6W J 4.7k Ω	9HSCX6JATZ0472	AA
R572	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R574	CHIP RES.(1608) 1/10W J 560 Ω	9HSRXAJR5Z0561	AA
R575	CHIP RES.(1608) 1/10W J 330k Ω	9HSRXAJR5Z0334	AA
R576	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R577	CHIP RES.(1608) 1/10W J 1.5k Ω	9HSRXAJR5Z0152	AA
R578 R581	CHIP RES.(1608) 1/10W J 1k Ω CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0102 9HSRXAJR5Z0103	AA AA
R582	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R583	CARBON RES. 1/4W J 820 Ω	9HSCX4JATZ0821	AA
R584	CHIP RES.(1608) 1/10W J 100 Ω	9HSRXAJR5Z0101	AA
R585	CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R586	CHIP RES.(1608) 1/10W J 820 Ω	9HSRXAJR5Z0821	AA
R587	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R588	CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R590	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R601	CHIP RES.(1608) 1/10W J 1.8k Ω	9HSRXAJR5Z0182	AA
R602	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R603	CHIP RES.(1608) 1/10W J 1.2k Ω	9HSRXAJR5Z0122	AA
R604	CHIP RES.(1608) 1/10W J 1.5k Ω	9HSRXAJR5Z0152	AA
R605	CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R613	CHIP RES.(1608) 1/10W J 8.2k Ω	9HSRXAJR5Z0822	AA
R614	CHIP RES.(1608) 1/10W J 5.1k Ω	9HSRXAJR5Z0512	AA
R615	CHIP RES.(1608) 1/10W J 5.1k Ω	9HSRXAJR5Z0512	AA
R616	CHIP RES.(1608) 1/10W J 8.2k Ω	9HSRXAJR5Z0822	AA
R617	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
R618 R621	CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104 9HSRXAZR5Z0000	AA AA
R622	CHIP RES.(1608) 1/10W 0 Ω CHIP RES.(1608) 1/10W 0 Ω		AA
R623	CHIP RES.(1608) 1/10W 0 Ω CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000 9HSRXAZR5Z0000	AA
R624	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R632	CHIP RES.(1608) 1/10W J 100 Ω	9HSRXAJR5Z0101	AA
R633	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R634	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R635	CHIP RES.(1608) 1/10W J 2.7k Ω	9HSRXAJR5Z0272	AA
R636	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R637	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R703	CARBON RES. 1/6W J 1.8k Ω	9HSCX6JATZ0182	AA
R704	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R705	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R706	CARBON RES. 1/4W J 1k Ω	9HSCX4JATZ0102	AA
R707	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R756	CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R757	CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R759	CARBON RES. 1/6W J 150 Ω	9HSCX6JATZ0151	AC
R760	CHIP RES.(1608) 1/10W J 150 Ω	9HSRXAJR5Z0151	AA
R761	CHIP RES.(1608) 1/10W J 75 Ω CHIP RES.(1608) 1/10W J 4.7k Ω	9HSRXAJR5Z0750	AA
R762 R763	CHIP RES.(1608) 1/10W J 4.7k Ω CHIP RES.(1608) 1/10W J 4.7k Ω	9HSRXAJR5Z0472 9HSRXAJR5Z0472	AA AA
R764	CARBON RES. 1/6W J 47k Ω	9HSCX6JATZ0473	AA
R765	CARBON RES. 1/6W J 47K Ω CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R767	CHIP RES.(1608) 1/10W J 16KΩ	9HSRXAJR5Z0103	AA
R768	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R769	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
R902	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R931	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R932	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R933	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R941	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R942	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R943	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1056	CARBON RES. 1/4W J 180 Ω	9HSCX4JATZ0181	AA
R1057	CARBON RES. 1/4W J 180 Ω	9HSCX4JATZ0181	AA
R1060	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
R1061	CARBON RES. 1/4W J 1k Ω	9HSCX4JATZ0102	AA

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Ref. No.	Description	Part No.	Code
R1062	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R1065	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R1066	CHIP RES.(1608) 1/10W J 220k Ω	9HSRXAJR5Z0224	AA
R1067	CHIP RES.(1608) 1/10W J 22k Ω	9HSRXAJR5Z0223	AA
R1068	CARBON RES. 1/4W J 1k Ω	9HSCX4JATZ0102	AA
R1071	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R1072	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R1085	CHIP RES.(1608) 1/10W F 75 Ω	9HSRXAFR5H0750	0
R1086	CHIP RES.(1608) 1/10W F 2.0k Ω	9HSRXAFR5H0202	AA
R1087	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R1090 R1091	CHIP RES.(1608) 1/10W J 56k Ω	9HSRXAJR5Z0563 9HSRXAJR5Z0333	AA AA
R1205	CHIP RES.(1608) 1/10W J 33k Ω CHIP RES.(1608) 1/10W F 20k Ω	9HSRXAFR5H2002	AA
R1205	CHIP RES.(1608) 1/10W F 20k Ω CHIP RES.(1608) 1/10W F 20k Ω	9HSRXAFR5H2002 9HSRXAFR5H2002	AA
R1207	CHIP RES.(1608) 1/10W J 8.2k Ω	9HSRXAJR5Z0822	AA
R1207	CHIP RES.(1608) 1/10W J 8.2k Ω	9HSRXAJR5Z0822	AA
R1209	CHIP RES.(1608) 1/10W F 30k Ω	9HSRXAFR5H3002	AA
R1210	CHIP RES.(1608) 1/10W F 30k Ω	9HSRXAFR5H3002	AA
R1211	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R1221	CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R1222	CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R1223	CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R1224	CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R1227	CHIP RES.(1608) 1/10W J 220 Ω	9HSRXAJR5Z0221	AA
R1228	CHIP RES.(1608) 1/10W J 220 Ω	9HSRXAJR5Z0221	AA
R1229	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1233	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1236	CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R1238	CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R1240	CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R1245	CHIP RES.(1608) 1/10W J 10 Ω	9HSRXAJR5Z0100	AA
R1351	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1352	CHIP RES.(1608) 1/10W J 1.8k Ω	9HSRXAJR5Z0182	AA
R1353	CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R1354	CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R1355	CHIP RES.(1608) 1/10W J 220 Ω	9HSRXAJR5Z0221	AA
R1356	CHIP RES.(1608) 1/10W J 75 Ω	9HSRXAJR5Z0750	AA
R1361	CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R1394	CARBON RES. 1/6W J 100 Ω	9HSCX6JATZ0101	AA
R1396	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R1421	CHIP RES. 1/10W F 160 Ω	9HSRXAFR5H1600	AA
R1422	CARBON RES. 1/4W J 75 Ω	9HSCX4JATZ0750	AA
R1423 R1442	CHIP RES. 1/10W F 160 Ω	9HSRXAFR5H1600	AA
R1442	CARBON RES. 1/4W J 75 Ω CARBON RES. 1/4W J 75 Ω	9HSCX4JATZ0750 9HSCX4JATZ0750	AA AA
R1501	CARBON RES. 1/4W 3 73 Ω CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R1502	CHIP RES.(1608) 1/10W J 10K Ω	9HSRXAJR520103 9HSRXAJR5Z0682	AA
R2001	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0002	AA
R2001	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103 9HSRXAJR5Z0103	AA
R2002	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R2005	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R2006	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R2067	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R2082	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R2083	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R2084	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R2086	CHIP RES.(1608) 1/10W J 5.6k Ω	9HSRXAJR5Z0562	AA
R2093	CHIP RES.(1608) 1/10W J 22k Ω	9HSRXAJR5Z0223	AA
R2094	CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
SWITCHES			
SW501	TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW503	TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW504	TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW506	LEAF SWITCH MXS01830MVP0	9HSSC0101MCE03	AC
SW507	ROTARY MODE SWITCH SSS-53MD	9HSSR0106KB003	AD
SW511	TACT SWITCH KSM0611B	9HSST0101HH004	AC
SW601	TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW602	TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW603	TACT SWITCH KSM0614B	9HSST0101HH013	AB

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Ref. No.	Description	Part No.	Code
SW604	TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW605	TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW2021	TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW2022	TACT SWITCH KSM0614B	9HSST0101HH013	AB
MISCELLANEO	ous		
JK101	RGB CONNECTOR MRC-021V-03	9HSXGL210LY003	AE
JK1202	RCA JACK(BLACK) MSP-281V2-B	9HSXRL010LY062	AC
JK1401	S TYPE JACK MDC-050V-2.4	9HSXEL040LY001	AE
JK751	RCA JACK MSP-282V-12 PBSN	9HSXRL030LY011	AD
JK752	RCA JACK(YELLOW) MSP-281V4-B	9HSXRL010LY003	AC
JK753	RCA JACK(WHITE) MSP-281V1-B	9HSXRL010LY005	AC
JK754	RCA JACK(RED) MSP-281V3-A	9HSYRL010LY002	AC
JW006	FFC CABLE, 27P FFC/P1.00/260	9HSX1H9700-001	AH
JW007	FFC CABLE, 19P FFC/P1.00/195	9HSX1H9700-002	AG
2L062	SCREW, B-TIGHT M3X8 BIND HEAD +	9HSGBKB3080	AA
2L082	SCREW, B-TIGHT M3X8 BIND HEAD +	9HSGBKB3080	AA
2B11	HEAD SHIELD H9700ED	9HS0VM416291	AC
2B15	BUSH, LED(F) H3700UD	9HS0VM409508	AB
2B17	FIP SPACER H9645JD	9HS0VM306837	AF
2B46	ROHM HOLDER H7770JD	9HS0VM304573	AB
2B52	FIP FIBER H9640UD	9HS1VM420394	AH
A5	JACK COVER(RCA) H9740ED	9HS0VM306932	AG
PS502	PHOTO INTERRUPTER RPI-302C70	9HSPWZP1302C70	AE
RM2001	REMOTE RECEIVER PIC-37043LO	9HSSESJRSKK041	AK
TP301	PCB JUMPER D0.6-P19.0	9HSJW19.0T	
TP401	PCB JUMPER D0.6-P14.5	9HSJW14.5T	
TP501	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
TP502	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
TP503	PCB JUMPER D0.6-P6.0	9HSJW6.0T	
TP504	PCB JUMPER D0.6-P15.0	9HSJW15.0T	
TU701	TUNER UNIT TMDG2-661A	9HSTUNPLBAL015	BD
VR501	CARBON P.O.T. 100k Ω B	9HSRCB104HH014	AB
X301	X'TAL 4.433619MHz	9HSXC445LLN001	AE
X501	X'TAL 12.000MHz	9HSXD126LDS001	AE
X502	X'TAL 32.768kHz(20PPM)	9HSXC323LQUA01	AC

POWER SW CBA

Ref. No.	Description	Part No.	Code
	POWER SW CBA	9HS1VSA10334B	
	Consists of the following		
2B13	BUSH, LED(E) H1600UD	9HS0VM408832	AB
D651	LED(RED) 204HD/E	9HSPQZ00204HDE	AB
JW009	FLAT CABLE, 4P AWG26#2651/P2.0/80	9HSX3804S6FF08	AD
SW651	TACT SWITCH KSM0614B	9HSST0101HH013	AB

DVD OPEN/CLOSE CBA

Ref. No.	Description	Part No.	Code
	DVD OPEN/CLOSE CBA	9HS1VSA10334C	
	Consists of the following		
JW008	FLAT CABLE, 2P AWG26#2651/P2.0/120	9HSX1HC460-001	AC
SW2020	TACT SWITCH KSM0614B	9HSST0101HH013	AB

SENSOR CBA

Ref. No.	Description	Part No.	Code
	SENSOR CBA	9HS1VSA10047	AK
	Consists of the following		
Q503	PHOTO TRANSISTOR PT204-6B-12	9HSPWZT2046B12	AC
Q504	PHOTO TRANSISTOR PT204-6B-12	9HSPWZT2046B12	AC

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POWER SUPPLY CBA + JUNCTION CBA + JACK-A CBA

	Ref. No.	Description	Part No.	Code
		POWER SUPPLY CBA + JUNCTION CBA + JACK-A CBA	9HS1VSA10337	BW
		Consists of the following		
ĺ		POWER SUPPLY CBA	9HS1VSA10337A	
		JUNCTION CBA	9HS1VSA10337B	
		JACK-A CBA	9HS1VSA10337C	

POWER SUPPLY CBA

Ref. No.	Description	Part No.	Code
	POWER SUPPLY CBA	9HS1VSA10337A	
	Consists of the following		
CAPACITORS	· ·		
013	ELECTROLYTIC CAP. 10μF/50V M	9HSE1JMASDL100	AC
014	ELECTROLYTIC CAP. 470μF/16V M	9HSE1CMASDL471	AB
015	ELECTROLYTIC CAP. 100μF/16V M	9HSE1CMASDL101	AC
017	ELECTROLYTIC CAP. 1000μF/16V M	9HSE1CMZPTL102	AD
018	ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
0020	ELECTROLYTIC CAP. 22µF/50V M	9HSE1JMASDL220	AB
0021	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
0022	ELECTROLYTIC CAP. 470μF/35V M	9HSE1GMASDL471	AE
C1001 <u>↑</u>	METALLIZED FILM CAP. 0.068μF/275V K	9HST2E683HJE06	AC
C1004	ELECTROLYTIC CAP. 100μF/400V M	9HSA2H101S6016	AM
C1005	CERAMIC CAP. SL K 56pF/1KV	9HSCD3AKPSL560	AD
C1006A	SAFTY CAP. 2200pF/250V	9HSCN2EMA0E222	AD
 C1007	ELECTROLYTIC CAP. 1000μF/6.3V M	9HSE0KMASTL102	AC
01013	CERAMIC CAP.(AX) X K 3300pF/16V	9HSCA1CKT0X332	AA
C1018	ELECTROLYTIC CAP. 100μF/10V M	9HSE1AMASDL101	AC
C1021	CERAMIC CAP.(AX) Y M 0.01μF/16V	9HSCA1CMT0Y103	AA
C1025	CHIP CERAMIC CAP.(1608) B K 0.033µF/50V	9HSHD1JK30B333	AA
C1029	CERAMIC CAP.(AX) X K 2200pF/16V	9HSCA1CKT0X222	AA
C1032	ELECTROLYTIC CAP. 10μF/16V M	9HSE1CMASDL100	AB
C1033	CERAMIC CAP. YV Z 0.022μF/50V	9HSCD1JZSYV223	AB
C1035	ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C1106	ELECTROLYTIC CAP. 100μF/35V M	9HSE1GMASDL101	AC
C1107	ELECTROLYTIC CAP. 220μF/6.3V M	9HSE0KMASDL221	AB
C2014	CERAMIC CAP. B K 0.01µF/500V	9HSCD2JKP0B103	AD
C2015	ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
DIODES	The state of the s		
D013	RECTIFIER DIODE BA158	9HSDQZ000BA158	AB
D014	SCHOTTKY BARRIER DIODE SB390	9HSDQZ000SB390	AE
D015	ZENER DIODE DZ-5.6BSCT265	9HSDTC0DZ5R6BS	AB
D016	SCHOTTKY BARRIER DIODE SB340	9HSDQZ000SB340	AF
D017	ZENER DIODE DZ-18BSBT265	9HSDTB00DZ18BS	AB
D018	RECTIFIER DIODE BA158	9HSDQZ000BA158	AB
D019	RECTIFIER DIODE FR203-B/P	9HSDQZ000FR203	AB
D1001	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1002	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1003	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1004	RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1004	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D1008	SCHOTTKY BARRIER DIODE SB140	9HSDQZ000SB140	AC
D1011	RECTIFIER DIODE BA159	9HSDQZ000BA159	AB
D1012	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D1016	RECTIFIER DIODE FR101	9HSDWZ000FR101	AB
D1017	ZENER DIODE DZ-18BSBT265	9HSDTB00DZ18BS	AB
01018	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
01019	ZENER DIODE DZ-6.8BSBT265	9HSDTB0DZ6R8BS	AB
01022	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
01024	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
01024	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D1025 D1030	SCHOTTKY BARRIER DIODE SB140	9HSDQZ000SB140	AC
IC	OOHOTTKI DANKILK DIODL 3D140	31 13DQ20003B140	AC
C1001 /\text{\tin}\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\ti}\}\tittt{\texititt{\text{\texi}\text{\text{\text{\texit\	PHOTOCOUPLER EL817A	9HSPEA000EL817	AD
COILS	THOTOGOTILEN LLOTTA	3H3FLAUUUEL0H	ΛD
-010	CHOKE COIL 47µH-K	9HSLBD00PKV007	AC
L010 L013	CHOKE COIL 47μH-K	9HSLBD00PKV007 9HSLBD00PKV007	AC

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Ref. No.	Description	Part No.	Code
L1001	BEAD CORE B16 RH 3.5X10X1.3	9HSL03010XM001	AB
L1002	BEAD CORE B16 RH 3.5X10X1.3	9HSL03010XM001	AB
L1003A	LINE FILTER 56MH TLF14CB5630R2	9HSLBG00ZTU022	AE
L1004	BEAD CORE B16 RH 3.5X10X1.3	9HSL03010XM001	AB
L1005	BEAD CORE B16 RH 3.5X10X1.3	9HSL03010XM001	AB
L1009	CHOKE COIL 47μH-K	9HSLBD00PKV007	AC
L1011	CHOKE COIL 47μH-K	9HSLBD00PKV007	AC
L1012	CHOKE COIL 47μH-K	9HSLBD00PKV007	AC
TRANSISTORS			
Q1001	FET 2SK3566	9HSFWZ02SK3566	AH
Q1003	TRANSISTOR 2SC1815-GR(TPE2)	9HSQS102SC1815	AB
Q1004	TRANSISTOR KTA1267(GR)	9HSQS10KTA1267	AC
Q1008	TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199	AC
RESISTORS			
R013	CARBON RES. 1/6W J 2.7k Ω	9HSCX6JATZ0272	AA
R057	CHIP RES.(1608) 1/10W J 220k Ω	9HSRXAJR5Z0224	AA
R068	CARBON RES. 1/4W J 1.8k Ω	9HSCX4JATZ0182	AA
R069	CARBON RES. 1/4W J 1.8k Ω	9HSCX4JATZ0182	AA
R073	CARBON RES. 1/4W J 1.8k Ω	9HSCX4JATZ0182	AA
R074	CARBON RES. 1/4W J 1.8k Ω	9HSCX4JATZ0182	AA
R1001	CARBON RES. 1/2W K 5.6M Ω	9HSCX2565FS001	AC
R1002	CARBON RES. 1/4W J 560k Ω	9HSCX4JATZ0564	AA
R1003	CARBON RES. 1/4W J 560k Ω	9HSCX4JATZ0564	AA
R1004	METAL OXIDE FILM RES. 2W J 82k Ω	9HSN02JZLZ0823	AB
R1005	CARBON RES. 1/4W J 1M Ω	9HSCX4JATZ0105	AA
R1006	CARBON RES. 1/4W J 1M Ω	9HSCX4JATZ0105	AA
R1007	CARBON RES. 1/4W J 1M Ω	9HSCX4JATZ0105	AA
R1008	CARBON RES. 1/4W G 680 Ω	9HSCX4GATZ0681	AA
R1010	CARBON RES. 1/6W J 8.2k Ω	9HSCX6JATZ0822	AA
R1011	METAL OXIDE FILM RES. 1W J 1.3 Ω	9HSN01JZLZ01R3	AA
R1020	CHIP RES.(1608) 1/10W J 1.8k Ω	9HSRXAJR5Z0182	AA
R1021	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R1022	CHIP RES.(1608) 1/10W J 4.7k Ω	9HSRXAJR5Z0472	AA
R1023	CHIP RES.(1608) 1/10W F 2.2k Ω	9HSRXAFR5H0222	AA
R1024	CHIP RES.(1608) 1/10W J 68k Ω	9HSRXAJR5Z0683	AA
R1025	CHIP RES. 1/10W F 5.6k Ω	9HSRXAFR5H0562	AA
R1029	CARBON RES. 1/6W J 100k Ω	9HSCX6JATZ0104	AA
R1032	CARBON RES. 1/4W G 1.8k Ω	9HSCX4GATZ0182	AB
R1035	CARBON RES. 1/6W J 1k Ω	9HSCX6JATZ0102	AA
R1036	CARBON RES. 1/6W J 100k Ω	9HSCX6JATZ0104	AA
R1037	CARBON RES. 1/6W J 10k Ω	9HSCX6JATZ0103	AA
R1038	CARBON RES. 1/6W J 100k Ω	9HSCX6JATZ0104	AA
R1039	CARBON RES. 1/6W J 470k Ω	9HSCX6JATZ0474	AA
R1040	CARBON RES. 1/4W J 15 Ω	9HSCX4JATZ0150	AA
R1043	METAL OXIDE FILM RES. 1W J 2.7 Ω	9HSN012R7ZU001	AA
R1059	CARBON RES. 1/4W J 680 Ω	9HSCX4JATZ0681	AA
R1126	CHIP RES.(1608) 1/10W J 33k Ω	9HSRXAJR5Z0333	AA
R1127	CARBON RES. 1/4W J 150 Ω	9HSCX4JATZ0151	AA
R1128	CARBON RES. 1/4W J 150 Ω	9HSCX4JATZ0151	AA
MISCELLANEOU			
J01	PCB JUMPER D0.6-P10.0	9HSJW10.0T	
J02	PCB JUMPER D0.6-P19.5	9HSJW19.5T	
2L053	SCREW, S-TIGHT M3X8 BIND + CHROME	9HSGBMS3080	AA
2B33	HEATSINK H9700ED	9HS0VM416271	AD
AC1001 <u></u> Λ	AC CORD PE8G2CG9G0AA059	9HSAE0172LW009	AH
F1001 <u>A</u>	FUSE T1.6AL/250V	9HSAGC20BW3162	AC
FH1001	FUSE HOLDER MSF-015	9HSH01Z00LY001	AA
FH1002	FUSE HOLDER MSF-015	9HSH01Z00LY001	AA
SA1001	SURGE ABSORBER 470V+-10PER	9HSVQZ10D471KB	AC
T0011 <u>∧</u>	SWITCHING TRANSFORMER CGS-SW0001F	9HSTT00EPSA161	AK

JUNCTION CBA

Ref. No.	Description	Part No.	Code
	JUNCTION CBA	9HS1VSA10337B	
	Consists of the following		
CN051A	CONNECTOR, 18P TUC-P18X-B1	9HSCTUS18TG001	AE
JW001	FLAT CABLE, 9P AWG26#2651/P2.0/75	9HSX3809S6FF07	AG
JW002	FLAT CABLE, 9P AWG26#2651/P2.0/65	9HSX3809S6FF06	AG

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JACK-A CBA

Ref. No.	Description	Part No.	Code
	JACK-A CBA	9HS1VSA10337C	
	Consists of the following		
CAPACITORS			
C101	CHIP CERAMIC CAP. B K 1000pF/50V	9HSHD1JK30B102	AA
C102	ELECTROLYTIC CAP. 1μF/50V M	9HSE1JMASDL1R0	AB
C103	ELECTROLYTIC CAP. 100μF/16V M	9HSE1CMASDL101	AC
C105	CHIP CERAMIC CAP. B K 2200pF/50V	9HSHD1JK30B222	AA
C106	CHIP CERAMIC CAP.(1608) CH J 470pF/50V	9HSHD1JJ3CH471	AB
C108	ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C110	CERAMIC CAP.(AX) X K 2200pF/16V	9HSCA1CKT0X222	AA
C111	CHIP CERAMIC CAP.(1608) CH J 470pF/50V	9HSHD1JJ3CH471	AB
C119	CHIP CERAMIC CAP. B K 2200pF/50V	9HSHD1JK30B222	AA
DIODES			
D112	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
D113	ZENER DIODE DZ-11BSAT265	9HSDTA00DZ11BS	AB
COIL			
L102	BEAD CORE B16 RH 3.5X10X1.3	9HSL03010XM001	AB
TRANSISTOR			
Q103	TRANSISTOR KTA1266(GR)	9HSQS40KTA1266	AC
RESISTORS			
R111	CARBON RES. 1/6W J 220 Ω	9HSCX6JATZ0221	AA
R114	CARBON RES. 1/4W J 820 Ω	9HSCX4JATZ0821	AA
R117	CARBON RES. 1/4W J 510 Ω	9HSCX4JATZ0511	AA
R118	CARBON RES. 1/6W J 4.7k Ω	9HSCX6JATZ0472	AA
R120	CARBON RES. 1/4W J 68 Ω	9HSCX4JATZ0680	AA
R123	CARBON RES. 1/4W J 820 Ω	9HSCX4JATZ0821	AA
R125	CARBON RES. 1/6W J 4.7k Ω	9HSCX6JATZ0472	AA
R126	CHIP RES.(1608) 1/10W J 75 Ω	9HSRXAJR5Z0750	AA
MISCELLANEO	us		
JK1402	RGB CONNECTOR MRC-021V-03	9HSXGL210LY003	AE
JW003	FLAT CABLE, 10P AWG26#2651/P2.0/190	9HSX3810S6FF19	AG

AFV CBA

Ref. No.	Description	Part No.	Code
	AFV CBA	9HS1VSA10062	BH
	Consists of the following		
CAPACITORS			
C1	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C4	CHIP CERAMIC CAP. CH J 56pF/50V	9HSHD1JJ3CH560	AA
C5	CHIP CERAMIC CAP.(1608) CH J 22pF/50V	9HSHD1JJ3CH220	AB
C6	CHIP CERAMIC CAP. CH J 56pF/50V	9HSHD1JJ3CH560	AA
C7	CHIP CERAMIC CAP. CH C 3pF/50V	9HSHD1JC3CH3R0	AA
C8	CHIP CERAMIC CAP. CH C 3pF/50V	9HSHD1JC3CH3R0	AA
C11	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C12	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMASSL100	AC
C13	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C14	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C15	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMASSL100	AC
C16	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMASSL100	AC
C17	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C19	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C20	ELECTROLYTIC CAP. 3.3μF/50V M H7	9HSE1JMASSL3R3	AC
C21	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C22	ELECTROLYTIC CAP. 10μF/16V M H7	9HSE1CMASSL100	AC
C24	ELECTROLYTIC CAP. 0.22μF/50V M H7	9HSE1JMASSLR22	AC
CONNECTOR			
CN1	ANGLE PIN HEADER, 9P 6029B-1-09Z003-T	9HS5700069	AC
DIODE			
D2	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
IC			
IC1	IC:AUDIO PROCESSOR MSP3417G-QG-B8	9HSSZBA0SP3002	AZ
COILS			
L1	INDUCTOR 10μH-K-26T	9HSLAXKATTU100	AC
L2	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
L3	INDUCTOR 18μH-K-26T	9HSLAXKATTU180	AC
L4	INDUCTOR 10μH-K-26T	9HSLAXKATTU100	AC

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Ref. No.	Description	Part No.	Code
RESISTORS			
R1	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R4	CHIP RES.(1608) 1/10W J 120k Ω	9HSRXAJR5Z0124	AA
R5	CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
MISCELLANEOU	S		
X1	X'TAL 18.432MHz	9HSXD186LLN001	AE

1-19-20 H9740EL

DECK MECHANISM SECTION

VCR/DVD COMBINATION

DV-NC100S/DV-NC100S(S)/DV-NC100S(Q)/ DV-NC100S(Y)/DV-NC100S(R)

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STANDARD MAINTENANCE

Service Schedule of Components

This maintenance chart shows you the standard of replacement and cleaning time for each part.

Because those may replace depending on environment and purpose for use, use the chart for reference.

	Deck	Periodic Service Schedule			
Ref. No.	Part Name	1,000 H	2,000 H	3,000 H	4,000 H
B2	Cylinder Assembly	0	•	0	•
B3	Loading Motor Assembly			•	
B8	Pulley Assembly		•		•
B587	Tension Lever Assembly		•		•
B31	ACE Head Assembly			•	
B573, B574	Reel S, Reel T			•	
B37	Capstan Motor		•		•
B52	Cap Belt		•		•
B73	FE Head			•	
B86	F Brake Assembly (HI)		•		
B133	Idler Assembly (HI)		•		•
B410	Pinch Arm Assembly		•		•
B414	M Brake (SP) Assembly (HI)		•		•
B416	M Brake (TU) Assembly (HI)		•		•
B525	LDG Belt		•		•

Notes:

- 1. Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / ACE Head / FE Head) using 90% Isopropyl Alcohol.
- 2. After cleaning the parts, do all DECK ADJUSTMENTS.
- 3. For the reference numbers listed above, refer to Deck Exploded Views.

2-1-1 H9740MEN

Cleaning

Cleaning of Video Head

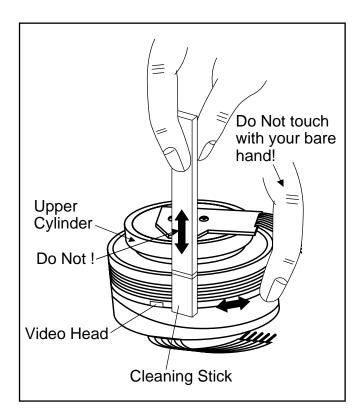
Clean the head with a head cleaning stick or chamois cloth.

Procedure

- 1. Remove the top cabinet.
- 2. Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
- 3. Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois cloth and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

Notes:

- 1. The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit.
- Do not reuse a stained head cleaning stick or a stained chamois cloth.



Cleaning of ACE Head

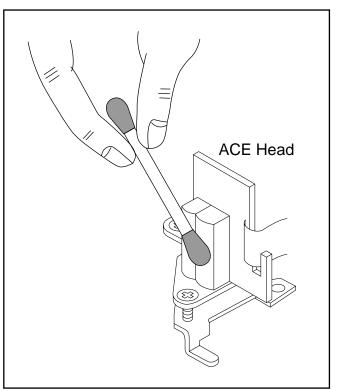
Clean the head with a cotton swab.

Procedure

- 1. Remove the top cabinet.
- 2. Dip the cotton swab in 90% isopropyl alcohol and clean the ACE Head. Be careful not to damage the upper drum and other tape running parts.

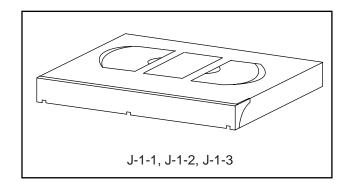
Notes:

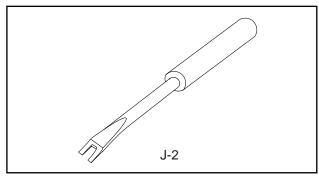
- 1. Avoid cleaning the ACE Head vertically.
- 2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.

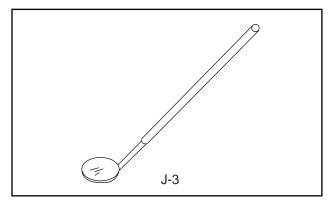


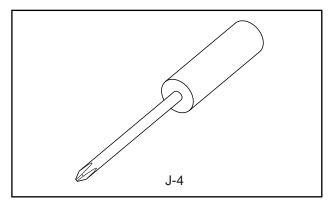
2-1-2 H9740MEN

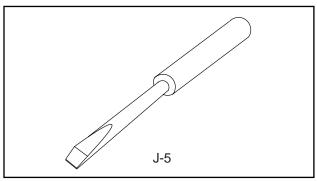
SERVICE FIXTURE AND TOOLS











Ref. No.	Name	Parts No.	Code	Adjustment
J-1-1	Test Tape	9HSFL6A	ВХ	Head Adjustment of ACE Head
J-1-2	Test Tape	9HSFL6NS8	вх	Azimuth and X Value Adjustment of ACE Head / Adjustment of Envelope Waveform
J-1-3	Test Tape	9HSFL6HA	вх	For Measurement of Hi-Fi Output Level
J-2	Guide Roller Adj. Screwdriver	Available Locally		Guide Roller
J-3	Mirror	Available Locally		Tape Transportation Check
J-4	Azimuth Adj. Screwdriver +	Available Locally		ACE Head Height
J-5	Flat Screwdriver	Available Locally		X Value

2-2-1 H9740FIX

MECHANICAL ALIGNMENT PROCEDURES

Explanation of alignment for the tape to correctly run starts on the next page. Refer to the information below on this page if a tape gets stuck, for example, in the mechanism due to some electrical trouble of the unit.

Service Information

A. Method for Manual Tape Loading/Unloading

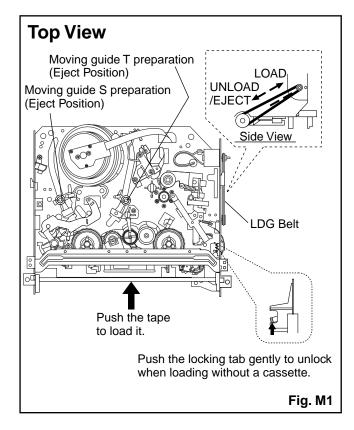
To load a cassette tape manually:

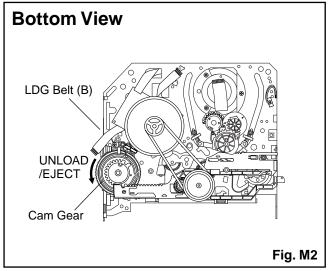
- 1. Disconnect the AC plug.
- 2. Remove the Top Case and Front Assembly.
- 3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see if the tape comes back out, by a spring motion, just as much as you have pushed in.
- 4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 for a minute or two to complete this task.

To unload a cassette tape manually:

- 1. Disconnect the AC plug.
- 2. Remove the Top Case and Front Assembly.
- 3. Make sure that the Moving guide preparations are in the Eject Position.
- 4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 until the Moving guide preparations come to the Eject Position. Stop turning when the preparations begin clicking or can not be moved further. However, the tape will be left wound around the cylinder.
- Turn the LDG Belt in the appropriate direction continuously, and the cassette tape will be ejected. Allow a minute or two to complete this task.

- B. Method to place the Cassette Holder in the tapeloaded position without a cassette tape
- 1. Disconnect the AC Plug.
- 2. Remove the Top Case and Front Assembly.
- Turn the LDG Belt in the appropriate direction shown in Fig. M1. Release the locking tabs shown in Fig. M1 and continue turning the LDG Belt until the Cassette Holder comes to the tape-loaded position. Allow a minute or two to complete this task.





2-3-1 H9740MA

1. Tape Interchangeability Alignment

Note:

To do these alignment procedures, make sure that the Tracking Control Circuit is set to the preset position every time a tape is loaded or unloaded. (Refer to page 2-3-4, procedure 1-C, step 2.)

Equipment required:

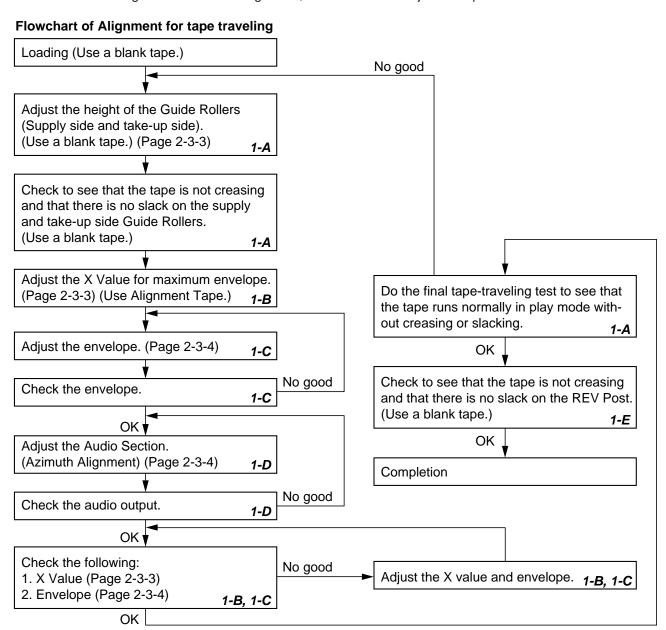
Dual Trace Oscilloscope

VHS Test Tape (FL6NS8) (Refer to "SERVICE FIXTURE AND TOOLS" section.)

Guide Roller Adj. Screwdriver

Flat Screwdriver (Purchase Locally)

Note: Before starting this Mechanical Alignment, do all Electrical Adjustment procedures.



2-3-2 H9740MA

1-A. Preliminary/Final Checking and Alignment of Tape Path

Purpose:

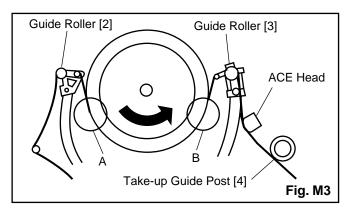
To make sure that the tape path is well stabilized.

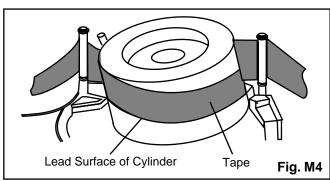
Symptom of Misalignment:

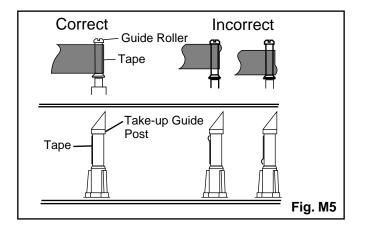
If the tape path is unstable, the tape will be damaged.

Note: Do not use an Test Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

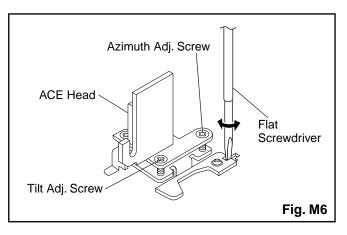
- Playback a blank cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig. M3 and M4.)
- If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Guide Roller Adj. Screwdriver. (Refer to Fig. M3 and M5.)







- Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and ACE Head. (Fig. M3 and M5)
- 4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the ACE Head. (Fig. M6)



1-B. X Value Alignment

Purpose:

To obtain maximum PB FM envelope signal at the preset position of the Tracking Control Circuit, align the Horizontal Position of the ACE Head.

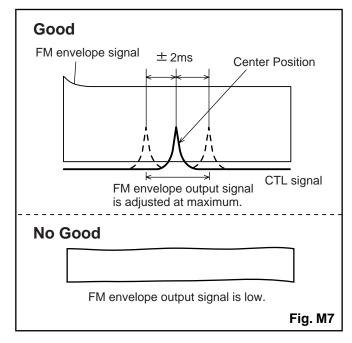
Symptom of Misalignment:

If the Horizontal Position of the ACE Head is not properly aligned, maximum PB FM envelope cannot be obtained at the preset position of the Tracking Control Circuit.

- Connect the oscilloscope to TP301 (C-PB) and TP503 (CTL) on the Main CBA. Use TP504 (RF-SW) as a trigger.
- 2. Playback the Gray Scale of the Test Tape (FL6NS8) and confirm that the PB FM signal is present.
- Set the Tracking Control Circuit to the preset position by pressing CH UP button on the remote control unit then "PLAY" button on the unit. (Refer to note on bottom of page 2-3-4.)
- 4. Use the Flat Screwdriver so that the PB FM signal at TP301 (C-PB) is maximum. (Fig. M6)

2-3-3 H9740MA

 To shift the CTL waveform, press CH UP or CH DOWN button on the remote control unit. Then make sure that the maximum output position of PB FM envelope signal become within ±2ms from preset position.



Set the Tracking Control Circuit to the preset position by pressing CH UP button on the remote control unit. and then "PLAY" button.

1-C. Checking/Adjustment of Envelope Waveform

Purpose:

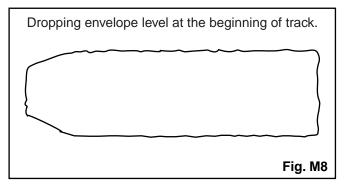
To achieve a satisfactory picture, adjust the PB FM envelope becomes as flat as possible.

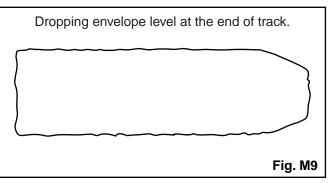
Symptom of Misalignment:

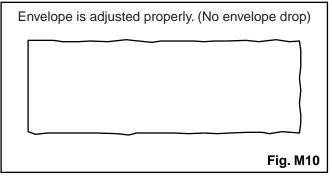
If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control Circuit.

- 1. Connect the oscilloscope to TP301 (C-PB) on the Main CBA. Use TP504 (RF-SW) as a trigger.
- 2. Playback the Gray Scale on the Test Tape (FL6NS8). Set the Tracking Control Circuit to the preset position by pressing CH UP button and then "PLAY" button on the unit. Adjust the height of Guide Rollers [2] and [3] (Fig. M3, Page 2-3-3) watching the oscilloscope display so that the envelope becomes as flat as possible. To do this adjustment, turn the top of the Guide Roller with the Guide Roller Adj. Screwdriver.
- 3. If the envelope is as shown in Fig. M7, adjust the height of Guide Roller [2] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.

- 4. If the envelope is as shown in Fig. M8, adjust the height of Guide Roller [3] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
- 5. When Guide Rollers [2] and [3] (Refer to Fig. M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M9.







Note: Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig. M3), check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure preset position. The number of pushes CH UP button to achieve 1/2 level of envelope should match the number of pushes CH DOWN button from center. If required, redo the "X Value Alignment."

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1-D. Azimuth Alignment of Audio/ Control/ Erase Head

Purpose:

To correct the Azimuth alignment so that the Audio/ Control/Erase Head meets tape tracks properly.

Symptom of Misalignment:

If the position of the Audio/Control/Erase Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

- 1. Connect the oscilloscope to the audio output jack on the rear side of the deck.
- 2. Playback the Test Tape (FL6NS8) and confirm that the audio signal output level is 8kHz.
- 3. Adjust Azimuth Adj. Screw so that the output level on the AC Voltmeter or the waveform on the oscilloscope is at maximum. (Fig. M6)

Note: Upon completion of the adjustment of Azimuth Adj. Screw, check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure preset position. The number of pushes CH UP button to achieve 1/2 level of envelope should match the number of pushes CH DOWN button from center. If required, redo the "X Value Alignment."

1-E. Checking and Alignment of Tape Path during reversing

Purpose:

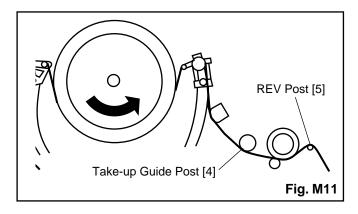
To make sure that the tape path is well stabilized during reversing.

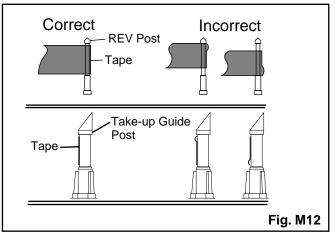
Symptom of Misalignment:

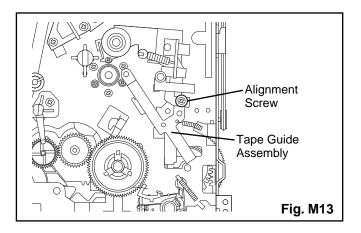
If the tape path is unstable during reversing, the tape will be damaged.

Note: Do not use an Test Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

- Insert a black cassette tape into the tray and set the unit to REV. Then confirm if the tape has been curled up or bent at the Take-up Guide Post [4] or REV Post [5] (Refer to Fig. M11 and M12.)
- 2. When the tape has been curled up or bent, turn the alignment screw to adjust the height of REV Post. (Refer to Fig. M11 and M13.)







2-3-5 H9740MA

DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

Before following the procedures described below, be sure to remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS.)

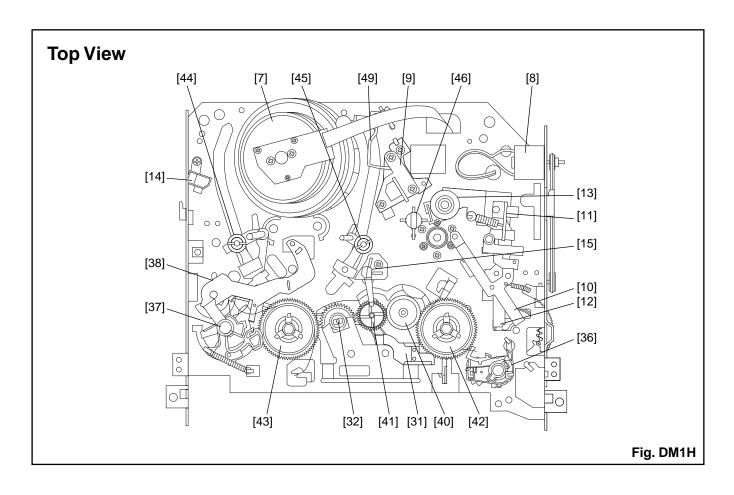
All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [44] and [45] in Fig. DM1H on page 2-4-3. When reassembling, follow the steps in reverse order.

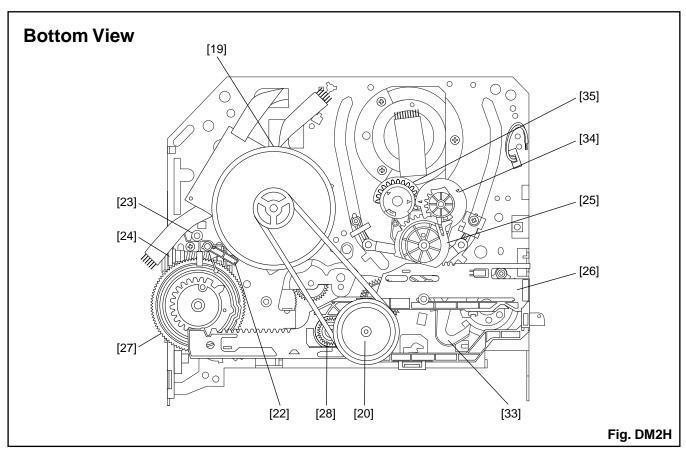
		REMOVAL INSTALLATION				
STEP /LOC. No.	START- ING No.	PART		Fig. No. REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER		ADJUSTMENT CONDITION
[1]	[1]	Guide Holder A	Т	DM3H	2(S-1)	
[2]	[1]	Cassette Holder Assembly	Т	DM4H		
[3]	[2]	Slider (SP)	Т	DM5H	(S-1A), *(L-1)	
[4]	[2]	Slider (TU)	Т	DM5H	*(L-2)	
[5]	[4]	Lock Lever	Т	DM5H	*(L-3), *(P-1)	
[6]	[2]	Cassette Plate	Т	DM5H		
[7]	[7]	Cylinder Assembly	Т	DM1H, DM6H	Desolder, 3(S-2)	
[8]	[8]	Loading Motor Assembly	Т	DM1H, DM7H	Desolder, LDG Belt, 2(S-3)	
[9]	[9]	ACE Head Assembly	Т	DM1H, DM7H	(S-4)	
[10]	[2]	Tape Guide Arm Assembly	Т	DM1H, DM8H-1	*(P-2)	
[11]	[10]	C Door Opener	Т	DM1H, DM8H-1	(S-4A), *(L-4)	
[12]	[11]	Pinch Arm (B)	Т	DM1H, DM8H-1, DM8H-2	*(P-3)	
[13]	[12]	Pinch Arm (A) Assembly	Т	DM1H, DM8H-1, DM8H-2		
[14]	[14]	FE Head	Т	DM1H, DM9H	(S-5)	
[15]	[15]	Prism	Т	DM1H, DM9H	(S-6)	
[16]	[2]	Slider Shaft	Т	DM10H	*(L-5)	
[17]	[16]	C Drive Lever (SP)	Т	DM10H		
[18]	[16]	C Drive Lever (TU)	Т	DM10H	(S-7), *(P-4)	
[19]	[19]	Capstan Motor	В	DM2H, DM11H	3(S-8), Cap Belt	
[20]	[20]	Clutch Assembly (HI)	В	DM2H, DM12H	(C-1)	
[21]	[20]	Center Gear	В	DM12H		
*[22]	[22]	F Brake Assembly (HI)	В	DM2H, DM12H	*(L-6)	
[23]	[22]	Worm Holder	В	DM2H, DM13H-1	(S-9), *(L-7), *(L-8)	
[24]	[22]	Pulley Assembly (HI)	В	DM2H, DM13H-1		
[25]	[25]	Mode Gear (LM)	В	DM2H, DM13H-1	(C-2)	
[26]	[20],[25]	Mode Lever (HI)	В	DM2H, DM13H-1, DM13H-2	(C-3)	
[27]	[22],[23], [26]	Cam Gear (A) (HI)	В	DM2H, DM13H-1, DM13H-2	(C-4)	(+)Refer to Alignment Sec.Page 2-5-1
[28]	[26]	TR Gear C	В	DM2H, DM13H-1	(C-5)	

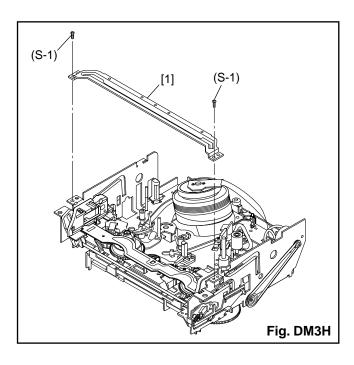
2-4-1 H9740MA

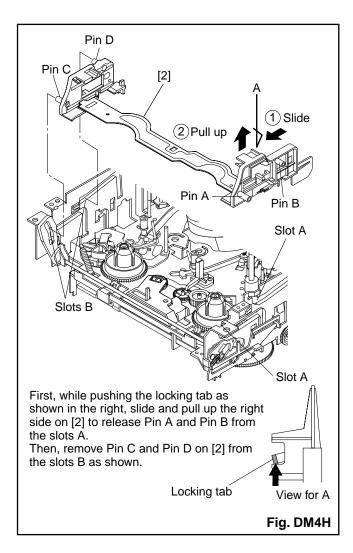
				REMOVAL		INSTALLATION	
STEP /LOC. No.	START- ING No.	PART		Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION	
[29]	[28]	TR Gear Spring	В	DM13H-1			
[30]	[29]	TR Gear A/B	В	DM13H-1			
[31]	[31]	FF Arm (HI)	В	DM1H, DM14H			
[32]	[26]	Idler Assembly (HI)	В	DM1H, DM14H	*(L-9)		
[33]	[26]	BT Arm	В	DM2H, DM14H	*(P-5)		
[34]	[26]	Loading Arm (SP) Assembly	В	DM2H, DM14H		(+)Refer to Alignment Sec.Page 2-5-1	
[35]	[34]	Loading Arm (TU) Assembly	В	DM2H, DM14H		(+)Refer to Alignment Sec.Page 2-5-1	
[36]	[16],[26]	M Brake (TU) Assembly (HI)	Т	DM1H, DM15H			
[37]	[2],[26]	M Brake (SP) Assembly (HI)	Т	DM1H, DM15H	*(P-6)		
[38]	[37]	Tension Lever Assembly	Т	DM1H, DM15H			
[39]	[38]	T Lever Holder	Т	DM15H	*(L-10)		
[40]	[40]	M Gear (HI)	Т	DM1H, DM15H	(C-6)		
[41]	[15],[40]	Sensor Gear (HI)	Т	DM1H, DM15H	(C-7)		
[42]	[36],[40]	Reel T	Т	DM1H, DM15H			
[43]	[38]	Reel S	Т	DM1H, DM15H			
[44]	[34],[38]	Moving Guide S Preparation	Т	DM1H, DM16H	(S-11), Slide Plate		
[45]	[35]	Moving Guide T Preparation	Т	DM1H, DM16H			
[46]	[19]	TG Post Assembly	Т	DM1H, DM16H	*(L-11)		
[47]	[27]	Rack Assembly	R	DM17H		(+)Refer to Alignment Sec.Page 2-5-1	
[48]	[47]	F Door Opener	R	DM17H			
[49]	[49]	Cleaner Assembly	Т	DM1H, DM6H			
[50]	[49]	CL Post	Т	DM6H	*(L-12)		

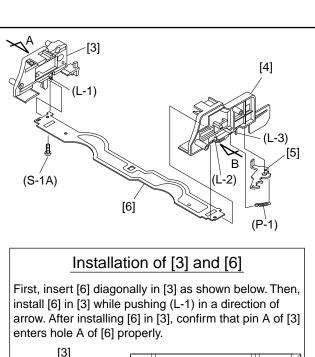
- (1): Follow steps in sequence. When reassembling, follow the steps in reverse order. These numbers are also used as identification (location) No. of parts in the figures.
- (2): Indicates the part to start disassembling with in order to disassemble the part in column (1).
- (3): Name of the part
- (4): Location of the part: T=Top B=Bottom R=Right L=Left
- (5): Figure Number
- (6): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered. P=Spring, W=Washer, C=Cut Washer, S=Screw, *=Unhook, Unlock, Release, Unplug, or Desolder e.g., 2(L-2) = two Locking Tabs (L-2).
- (7): Adjustment Information for Installation(+):Refer to Deck Exploded Views for Iubrication.

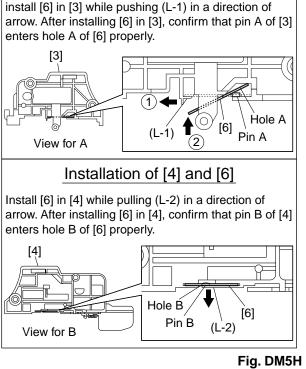




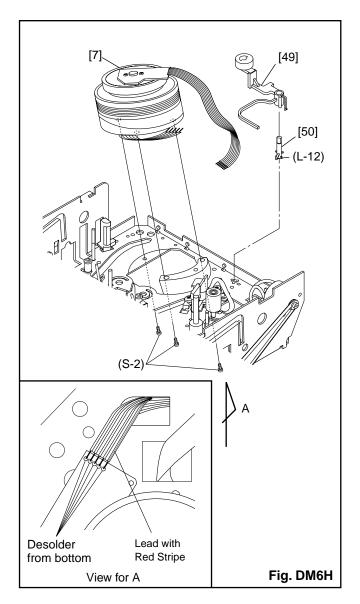


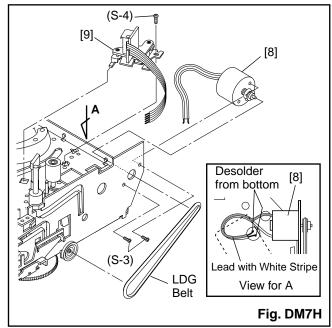


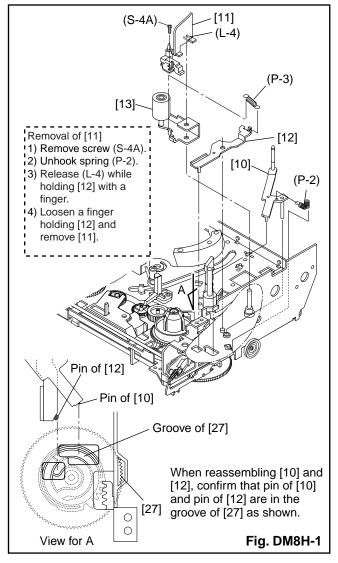




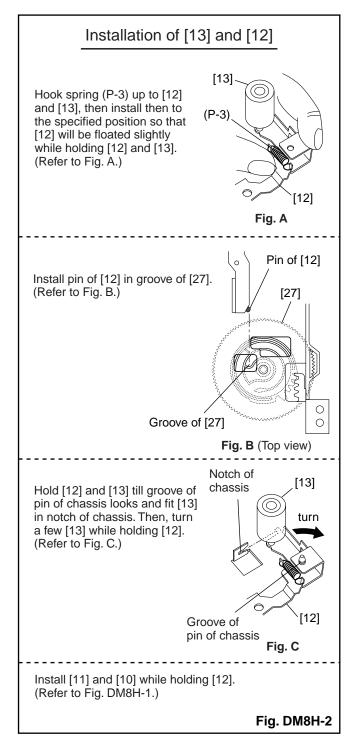
2-4-4 H9740MA

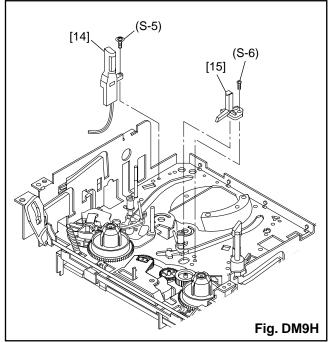


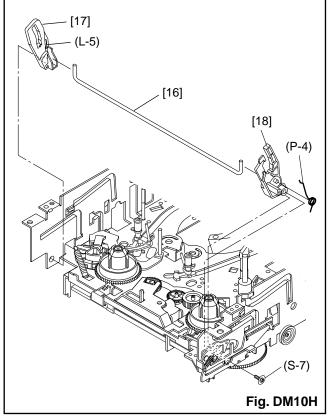




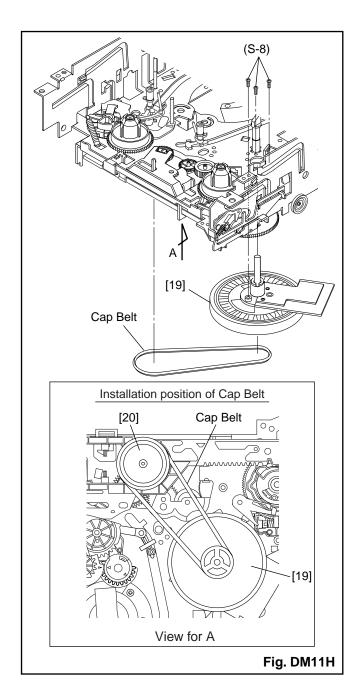
2-4-5 H9740MA

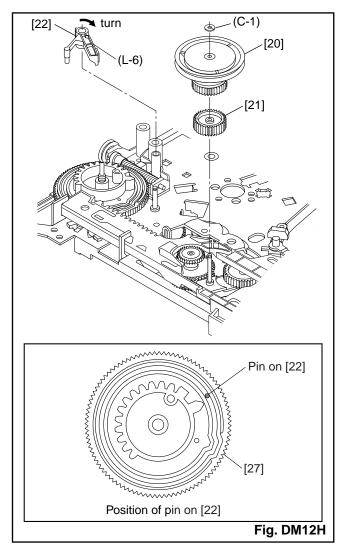




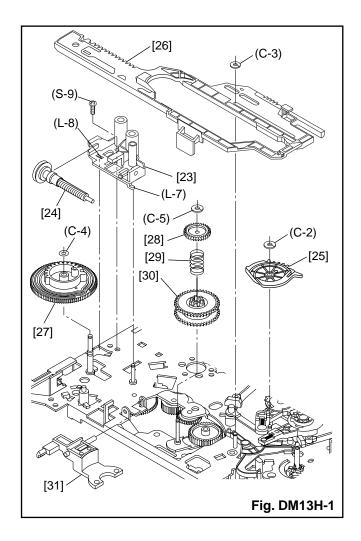


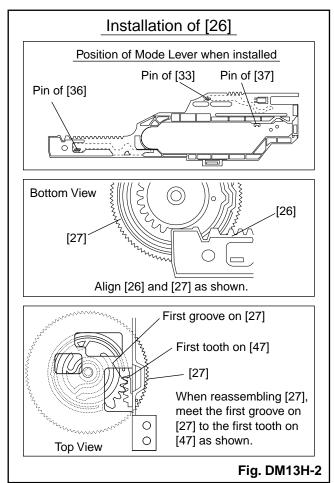
2-4-6 H9740MA

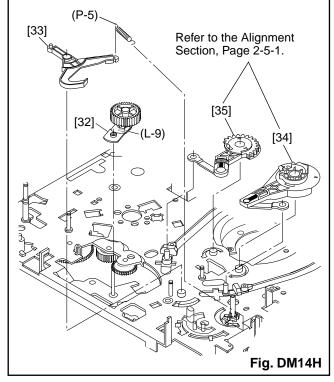




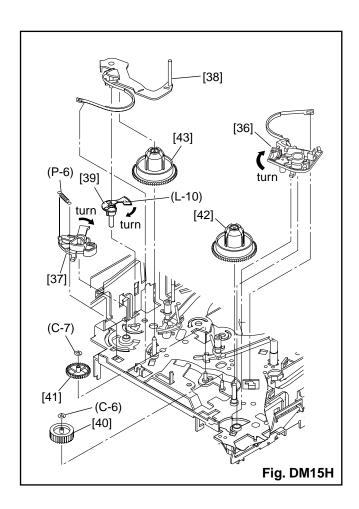
2-4-7 H9740MA

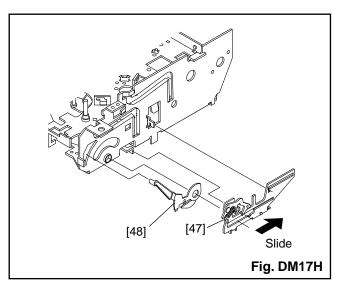


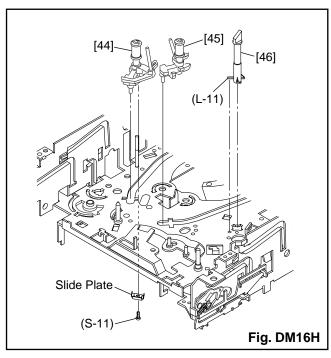




2-4-8 H9740MA







2-4-9 H9740MA

ALIGNMENT PROCEDURES OF MECHANISM

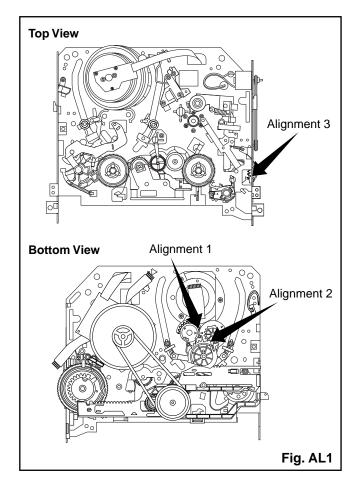
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

All alignments are to be performed with the mechanism in Eject mode, in the sequence given. Each procedure assumes that all previous procedures have been completed.

IMPORTANT:

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

Alignment points in Eject Position



Alignment 1

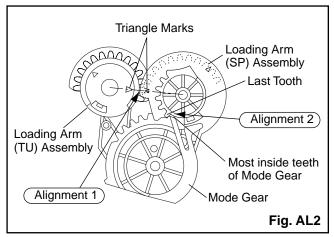
Loading Arm (SP) and (TU) Assembly

Install Loading Arm (SP) and (TU) Assembly so that their triangle marks point to each other as shown in Fig. AL2.

Alignment 2

Mode Gear

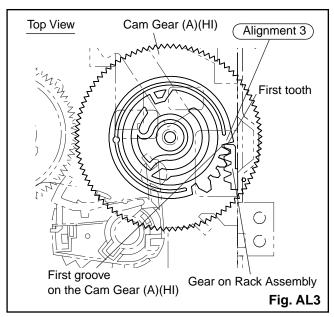
Keeping the two triangles pointing at each other, install the Loading Arm (SP) Assembly so that the last tooth of the gear meets the most inside teeth of the Mode Gear. See Fig. AL2.



Alignment 3

Cam Gear (A) (HI), Rack Assembly

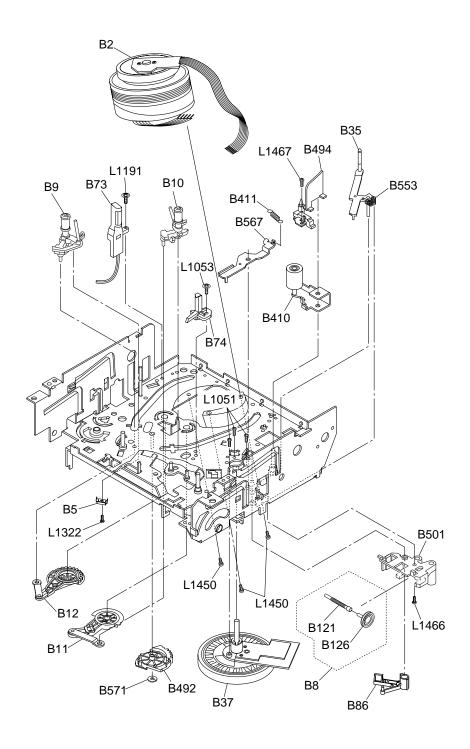
Install the Rack Assembly so that the first tooth on the gear of the Rack Assembly meets the first groove on the Cam Gear (A) (HI) as shown in Fig. AL3.



2-5-1 H9740AMP

DECK EXPLODED VIEWS

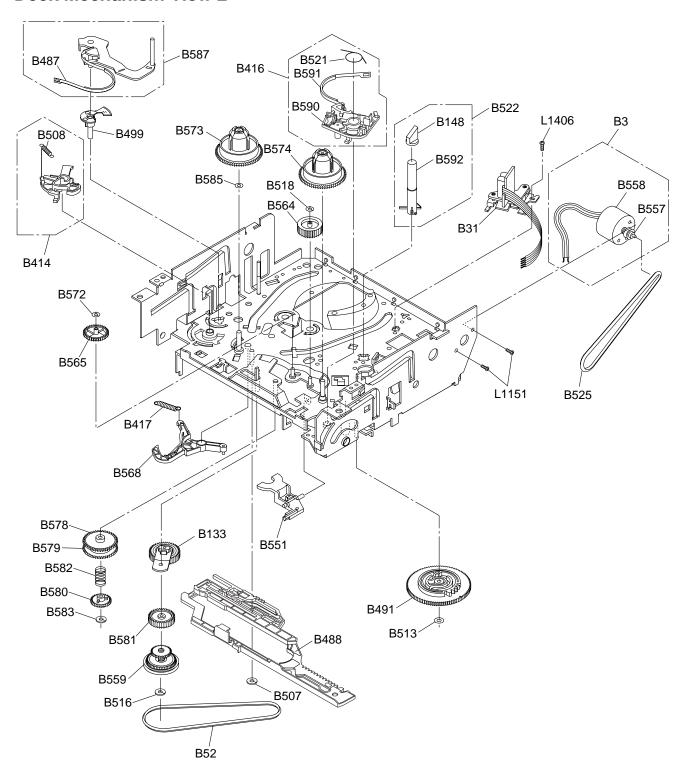
Deck Mechanism View 1



Some Ref. Numbers are not in sequence.

2-6-1 H9740DEX

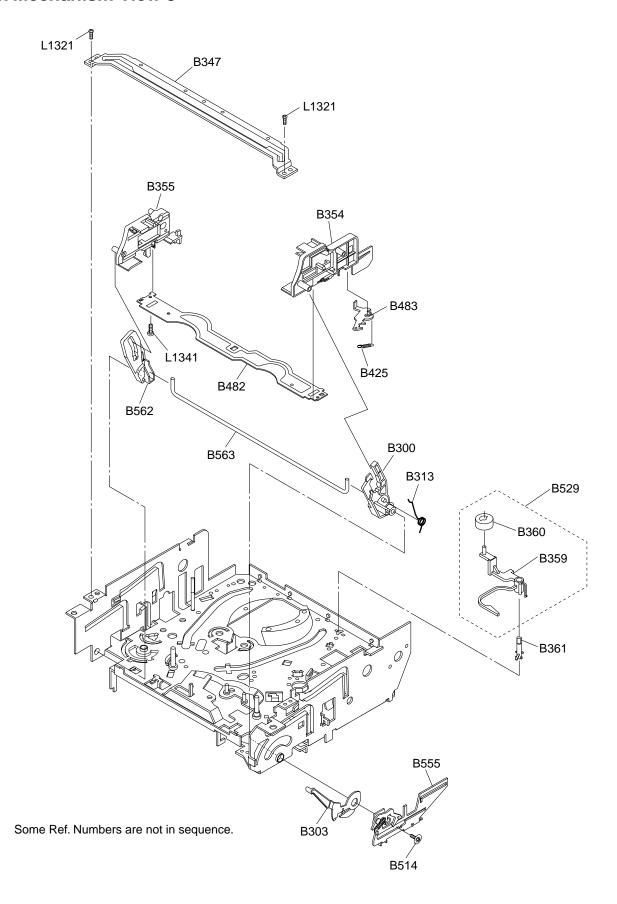
Deck Mechanism View 2



Some Ref. Numbers are not in sequence.

2-6-2 H9740DEX

Deck Mechanism View 3



2-6-3 H9740DEX

DECK PARTS LIST

Ref. No.	Description	Part No.	Code
B2	CYLINDER ASSEMBLY MK12.5 PAL 6HD	9HSN2367CYL	BE
33	LOADING MOTOR ASSEMBLY MK12.5	9HS0VSA14636	AL
35	SLIDE PLATE MK12.5	9HS0VM416429	AB
38	PULLEY ASSEMBLY(HI) MK12	9HS0VSA13501	AH
39	MOVING GUIDE S P.P MK12.5	9HS0VSA14717	AN
B10	MOVING GUIDE T P.P MK12.5	9HS0VSA14639	AN
B11	LOADING ARM(TU) ASSEMBLY MK12	9HS0VSA13300	AE
B12	LOADING ARM(SP) ASSEMBLY MK12	9HS0VSA13299	AE
B31	AC HEAD ASSEMBLY MK12.5	9HS0VSA14841	AP
B35	TAPE GUIDE ARM ASSEMBLY MK12.5	9HS0VSA15014	AE
B37	CAPSTAN MOTOR 288/VCZC1301	9HSN9681CML	AY
B52	CAP BELT MK10	9HS0VM411138	AC
		0.100111111100	
B73	FE HEAD(MK11) MH-131SF11	9HSHVEC01Z0005	AG
B74	PRISM MK10	9HS0VM202870	AB
B86	F BRAKE ASSEMBLY(HI) MK12	9HS0VSA13447	AC
B121	WORM MK12	9HS0VM414091	AK
B126	PULLEY MK12	9HS0VM414330B	AB
B133	IDLER ASSEMBLY(HI) MK12.5	9HS0VSA14849	AC
B148	TG CAP MK6	9HS0VM407664C	AA
B300	C DRIVE LEVER(TU) MK12	9HS0VM203773	AC
B303	F DOOR OPENER MK12	9HS0VM203751C	AB
B313	C DRIVE SPRING MK12	9HS0VM414145	AB
B347	GUIDE HOLDER A MK10	9HS0VM304920	AD
B354	SLIDER(TU) MK12	9HS0VM101172F	AC
B355	SLIDER(SP) MK12	9HS0VM101182H	AC
	` '		
B359	CLEANER LEVER MK10	9HS0VM304413	AB
B360	CLEANER ROLLER MK9	9HS0VM410032C	AC
B361	CL POST MK10	9HS0VM411114	AA
B410	PINCH ARM(A) ASSEMBLY(6) MK12.5	9HS0VSA14935	AG
B411	PINCH SPRING MK12	9HS0VM414644	AB
B414	M BRAKE(SP) ASSEMBLY(HI) MK12	9HS0VSA13655	AH
B416	M BRAKE(TU) ASSEMBLY(HI) MK12	9HS0VSA13449	AH
B417	TENSION SPG(3002645) MK12.5	9HS0VM414221G	AB
B425	LOCK LEVER SPRING MK10	9HS0VM411110	AA
B482	CASSETTE PLATE MK12	9HS0VM203749	AC
B483	LOCK LEVER MK12	9HS0VM414095	AB
B487	BAND BRAKE(SP) MK12	9HS0VM305723	AC
B488	MODE LEVER(HI) MK12	9HS0VM101175J	AD
		9HS0VM101176	AC
B491	CAM GEAR(A)(HI) MK12	***************************************	
B492	MODE GEAR(LM) MK12	9HS0VM204236	AC
B494	C DOOR OPENER MK12	9HS0VM305719	AB
B499	T LEVER HOLDER MK12	9HS0VM305729	AB
B501	WORM HOLDER MK12	9HS0VM203767	AD
B507	REEL WASHER MK9 5*2.1*0.5	9HS0VM410058	AA
B508	S BRAKE SPRING(HI) MK12	9HS0VM414899	AB
B513	P.S.W F 6*2.55*0.5	9HS0VM402629A	AA
B514	SCREW RACK MK10	9HS0VM411535	AB
B516	REEL WASHER MK9 5*2.1*0.5	9HS0VM410058	AA
B518	P.S.W CUT 1.6X4.0X0.5T	9HS0VM408485A	AA
B521	REV BRAKE SPG(HI) MK12	9HS0VM414943	AA
B522	TG POST ASSEMBLY MK10	9HS0VSA11012	AD
B525	LDG BELT MK11	9HS0VM412804	AC
B529	CLEANER ASSEMBLY MK10	9HS0VSA11161	AD
B551	FF ARM(HI) MK12	9HS0VM306183	AC
B553	REV SPRING MK11	9HS0VM412555	AA
3555	RACK ASSEMBLY MK12	9HS0VSA13289	AF
B557	MOTER PULLEY U5	9HS0VM403205	AB
B558	LOADING MOTOR M31E-1 R-14 7401	9HSMDZB12MM007	AK
B559	CLUTCH ASSEMBLY(HI) MK12	9HS0VSA13450	AQ
B562	C DRIVE LEVER(SP) MK12	9HS0VM203772	AB
B563	SLIDER SHAFT MK12	9HS0VM305762	AC
B564	M GEAR(HI) MK12	9HS0VM305755	AC
B565	SENSOR GEAR(HI) MK12	9HS0VM305756	AB
3567	, ,		
D: 10 /	PINCH ARM(B) MK12	9HS0VM305718	AB
B568	BT ARM MK12	9HS0VM305728	AC

2-7-1 H9740DPL

Ref. No.	Description	Part No.	Code
B572	P.S.W CUT 1.6X4.0X0.5T	9HS0VM408485A	AA
B573	REEL S MK11	9HS0VM203436	AC
B574	REEL T MK10	9HS0VM202872C	AC
B578	TR GEAR A MK10	9HS0VM304440	AB
B579	TR GEAR B MK12	9HS0VM305900	AB
B580	TR GEAR C MK12	9HS0VM305743A	AB
B581	CENTER GEAR MK11	9HS0VM305081	AC
B582	TR GEAR SPRING MK10	9HS0VM411187C	AB
B583	CAM WASHER MK12	9HS0VM414741	AB
B585	PSW(317505) MK11	9HS0VM413663	AB
B587	TENSION LEVER ASSEMBLY MK12	9HS0VSA13279	AG
B590	BRAKE ARM(TU) MK12	9HS0VM203752E	AB
B591	BAND BRAKE(TU) MK12	9HS0VM305724C	AC
B592	TG POST MK10	9HS0VM411108E	AB
L1051	SCREW, B-TIGHT M2.6X6 PAN HEAD+	9HSGPMB9060	AA
L1053	SCREW, S-TIGHT M2.6X8 WASHER HEAD+	9HSGCMS9080	AA
L1151	SCREW, SEMS M2.6X4 PAN HEAD+	9HSCPM39040	AA
L1191	SCREW, S-TIGHT M2.6X8 WASHER HEAD+	9HSGCMS9080	AA
L1321	SCREW, S-TIGHT M3X6 BIND HEAD+	9HSGBMS3060	AA
L1322	SCREW, B-TIGHT M2.3X4 BIND HEAD+	9HSGBMBY040	AA
L1341	SCREW, P-TIGHT M2X6 PAN HEAD+	9HSGPMP2060	AA
L1406	AC HEAD SCREW MK9	9HS0VM410964	AB
L1450	SCREW, SEMS M2.6X5 PAN HEAD+	9HSCPM39050	AB
L1466	SCREW, S-TIGHT M2.6X6 BIND HEAD+	9HSGBMS9060	AA
L1467	SCREW M2.6X5 WASHER HEAD+	9HSSCM39050	AA
	SANKOUL FG-84M	9HS0VZZ00062	СВ
	FLOIL G-684G	9HS0VZZ00257	CE
	SLIDUS OIL #150	9HS0VZZ00226	CE

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